Bay Area Air Quality Management District

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

Revision 3
Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Valero Refining Co. - California
Facility #B2626

Facility Address:
3400 East Second Street
Benicia, CA 94510-1097

Mailing Address:
3400 East Second Street
Benicia, CA 94510-1097

Responsible Official	**Facility Contact**
Douglas W. Comeau	Clark Hopper,
Vice President and General Manager	Environmental Manager
(707) 745-7724	(707) 745-7976

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

BAAQMD Engineering Division Contact:
Thu H. Bui

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent _____ March 2, 2007 _____
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 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 10/7/98);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 11/1/89);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 6/15/94);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 6/15/94)
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 5/2/01) And
SIP Regulation 2, Rule 6 – Permits, Major Facility Review

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

1. This Major Facility Review Permit was issued on December 1, 2003, and expires on November 30, 2008. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 31, 2008 and no earlier than November 30, 2007. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** November 30, 2008**.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

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

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

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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.
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)

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

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The first certification period shall be December 1, 2003, to November 30, 2004. The second certification period shall be December 1, 2004, to December 31, 2004. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division

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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, for each source with a capacity identified as a firm limit, the maximum capacity for each source as shown in Table II-A 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)
2. In Table II-A, for each source with a capacity identified as a grandfathered limit, all capacities as shown in Table II-A is based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Regulation 2-1-234.3)
3. Reserved.
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

I. Standard Conditions

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.

5. Deleted. The District addressed the applicability of 40 CFR 63, Subpart CC to certain flares in Item #1 of the February 15, 2005 letter to Deborah Jordan.
6. Deleted. The District addressed the applicability of Regulation 8, Rule 2 to certain cooling towers in Item #4 of the February 15, 2005 letter to Deborah Jordan.
7. Deleted. The District addressed the applicability of 40 CFR 61, Subpart QQQ to certain wastewater treatment sources in Item #9 of the February 15, 2005 letter to Deborah Jordan, and in the Revision 2 Statement of Basis.
8. Deleted. The District addressed the applicability of 40 CFR 63, Subpart FF to certain waste streams in Item #11 of the February 15, 2005 letter to Deborah Jordan, and in the Revision 2 Statement of Basis.
9. Deleted. The District addressed the ESP monitoring to assure compliance with SIP particulate standards in Item #13 of the February 15, 2005 letter to Deborah Jordan, and in the Revision 2 Statement of Basis.

K. Accidental Release

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

II. EQUIPMENT

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-1	Claus - modified 3 stage; Burns Multi-fuel; (SULFUR PLANT 'A' TRAIN ACID GAS BURNER, F-1301A)	Burners: John Zink Co.	Burners (4): DB-0-24	160 short tons/day	58,400 short tons/year (Grandfathered Source)
S-2	Claus - modified 3 stage; Burns Multi-fuel; (SULFUR PLANT 'B' TRAIN ACID GAS BURNER, F-1301B)	Burners: John Zink Co.	Burners (4): DB-0-24	160 short tons/day	58,400 short tons/year (Grandfathered Source)
S-3	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-101)	Burners: John Zink Co.	Burners (3): YS-30	83.88 ktherms/day fuel gas (349.5 MMBTU/hr) 43.2 ktherms/day CO flue gas (179.8 MMBTU/hr)	30.6 MM therms/year fuel gas (349.5 MMBTU/hr) 15.7 MM therms/year CO flue gas (179.8 MMBTU/hr) (Grandfathered Source)
S-4	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, REDUCED CRUDE PREHEAT, F-102)	Burners: John Zink Co.	Burners (3): YS-22	40.75 ktherms/day fuel gas (169.8 MMBTU/hr) 21.45 Ktherms/day CO flue gas (89.4 MMBTU/hr)	14.9 MMtherms/year fuel gas (169.8 MMBTU/hr) 7.8 MM therms/year CO flue gas (89.4 MMBTU/hr) (Grandfathered Source)
S-5	Fluid cat cracker, FCC fresh feed, (FCCU REGENERATOR R-702)	Custom	N/A	77.2 kBBL/day fresh feed (actual)	27.0 MMBBL/year fresh feed (actual 180 day average. of 74.1 kbbl/day) (Grandfathered Source)
S-6	Fluid coking - general, Coker fresh feed, (COKER BURNER R-902)	ER&E	N/A	39.6 kBBL/day fresh feed (design safety valve limit)	14.5 MMBBL/year fresh feed (39.6 kBBL/day) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-7	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, JET FUEL HYDROFINING, F-103)	Burners: John Zink Co.	Burners (4): HEVD-18	12.72 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 53 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	4.64 MMtherms/year (annual throughput is based on an demonstrated actual hourly maximum firing rate of 53 MMBTU/hour) (Grandfathered Source)
S-8	Fluid coking - transportation, Coker product, (Coke Silos Primary Scrubber, Cyc 1901)	GE ESI	Model #35; Series 412M	2400 tons/day (based on 100 tons/hour)	613.2 ktons/year. (based on 70 tons/hour) (Grandfathered Source)
S-9	Blow-down system - w/o control, Crude oil (Vapor Recovery System)	Custom	N/A	135 kBBL/day permit limit	49.3 MMBBL/year (135 kbbl/day) (Grandfathered Source)
S-10	Removed from Service (5/2005)				
S-11	Storage, Carbon black, (Activated Carbon Bin TK-2061)	Custom	N/A	2.4 tons/day (based on 0.1 tons/hr)	292 tons/12-months (Condition #9897) (New Source Review)
S-12	Removed from Service (5/2005)				
S-13	Process Heater/Furnace, Refinery make gas (RMG) (Direct Fired Air Heater, Aux. Burner, F-702)	John Zink Co.	Burner (1): Z-38	14.4 ktherms/day (daily capacity is based on a burner design value of 60 MMBTU/hr)	Startup burner: No annual throughput limit is needed. (Grandfathered Source)
S-16	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (ACID GAS FLARE)	John Zink Co.	16" tip	0.084 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.35 MMBTU/hour)	30.66 ktherms/year (based on actual hourly maximum firing rate of 0.35 MMBTU/hour) Pilot gas only (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-17	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (BUTANE FLARE, ST-1701)	John Zink Co.	Burners (2): STF-LH-127-30HF	0.024 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.10 MMBTU/hour)	8.76 ktherms/year (based on actual hourly max firing rate of 0.1 MMBTU/hour) Pilot gas only (Grandfathered Source)
S-18	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (SOUTH FLARE, ST-2101)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-19	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (NORTH FLARE ST-2103)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-20	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, NAPTHA HYDROFINING, F-104)	Custom	Burners (6): John Zink VYD-18	14.88 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 62 MM/BTU/hour) (Reg 9 Rule 10 Compliance Plan)	5.43 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 62 MMBTU/hour) (Grandfathered Source)

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Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-21	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-301)	Custom	Burners: 980	147.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	106 MMtherms/365-days (combined w/S-22) (average of 605 MMBTU/hour per furnace) (Condition #10574-37) (New Source Review)
S-22	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-351)	Custom	Burners: 980	147.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	106 MMtherms/365-days (combined w/S-21) (average of 605 MMBTU/hour per furnace) (Condition #10574-37) (New Source Review)
S-23	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS OIL HYDROCRACKING, F-401)	Custom	Burners (20): John Zink Lonox LNV-PC-70	200 MMBTU/hour for any 1 hour period; 44.4 ktherms/day (average of 185 MMBTU/hour) (Condo. #14318) (Regulation 9, Rule 10 Compliance Plan)	16.21 MMtherms/year (average of 185 MMBTU/hour) (New Source Review)
S-24	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, CAT FEED HYDROFINING, F-601)	Custom	Burner (1): Exxon 50J	7.92 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	2.89 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Grandfathered Source)

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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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-25	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, CAT FEED PREHEAT, F-701)	Custom	Burners (20): John Zink DBA-22	55.2 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	20.15 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour) (Grandfathered Source)
S-26	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, HCN HYDROFINING, F-801, 33 MMBTU/hr)	Custom	Burners (4): John Zink VPMR-20	7.92 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	2.89 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Grandfathered Source)
S-27	Waste gases; Other/not specified, Waste gases, Sodium hydroxide, 7 days/wk, 10 hrs/day, 52 wks/year (PFR REGENERATION FACILITIES)	Custom	N/A	22.56 MMSCF/day (based on 0.94 MMSCF/hour)	255.5 MMSCF/year (based on 70 kscf/hour for 10 hour/day – 365 day/year.) (Grandfathered Source)
S-29	Cooling tower, Fresh water, Water - process, other/not spec, (COOLING TOWER)	Deflon Anderson	5 DOP 4248-2615031 (5 cells)	85.5 MMgal/day circulation rate (based on 59.4 kgal/min)	31,220 MMgal/year (based on –85.5 MMgal/day circulation rate) (Grandfathered Source)
		Marley	2 cells		
S-30	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR PREHEAT, F-2901)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-31, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)

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Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-31	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2902)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
S-32	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2903)	Custom	Burners (9): John Zink HEVR-22P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-31 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
S-33	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2904)	Custom	Burners (7): John Zink HEVR-22	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-31 and S-32 (average of 463 MMBTU/hour) (Grandfathered Source)
S-34	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS HEATER, F-2905)	Custom	Burners (9): John Zink HEVR-22P	17.76 ktherms/day (daily capacity is based on demonstrated actual hourly maximum firing rate of 74 MMBTU/hr) (9-10 Compliance Plan)	6.48 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 74 MMBTU/hour) (Grandfathered Source)
S-35	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS HEATER, F-2906)	Custom	Burners (3): John Zink HEVR-16P	3.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 14 MMBTU/hour) (9-10 Compliance Plan)	1.23 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 14 MMBTU/hour) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-36	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-701)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-37	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-702)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (New Source Review)
S-38	Removed from Service				
S-39	Removed from Service				
S-40	Commercial/Institutional Boiler, Natural gas, Refinery make gas (RMG) (Utility Package Boiler, SG-2301, 218MMBTU/hr Horizontal force)	CE, Inc. Burners: Coen	34VP-14W; Burners: Daf-42 Low NOx	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (Condition #9296 and 9-10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (New Source Review) and MTBE Phaseout Application 2035
S-41	Industrial Boiler - Other, Natural gas, Refinery make gas (RMG) (Steam Generator, SG-2302)	CE, Inc.	34VP-14W; Burners (2): Type SV	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (9-10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-42	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, TREAT GAS PREHTR, F-1060)	Custom	Burner: John Zink Vyr-22	3.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate off 14.0 MMBTU/hour)	0.1 MMtherms/year (Permit ID# 30330-2) (Grandfathered Source)
S-43	Industrial Turbine (PROCESS GAS TURBINE, GT-401)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)
S-44	Industrial Turbine (PROCESS GAS TURBINE, GT-701)	GE	Frame Size 3	36.58 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 152.4 MMBTU/hour)	12.35 MMtherms/year throughput is based on a design (seasonal average temperature) maximum firing rate of 141.0 MMBTU/hour) (Grandfathered Source)
S-45	Industrial Turbine (PROCESS GAS TURBINE GT-702)	GE	Frame Size 5	61.80 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 257.5 MMBTU/hour)	20.1 MMtherms/year (throughput is based on an demonstrated annualized daily firing rate of 229.4 MMBTU/hour) (Grandfathered Source)
S-46	Industrial Turbine (Process Gas Turbine, GT 1031 with steam injection)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-48	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-1031)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-50	Process Heater/Furnace, Refinery make gas (RMG) (AIR HEATER, CKR AUX. BURNER, F-901)	John Zink	Burner: Z-38E	10.08 ktherms/day (capacity is based on a demonstrated actual hourly maximum firing rate of 42 MMBTU/hour)	Start up burner: No annual throughput limit is needed. (Grandfathered Source)
S-51	HCU Total Feed Sandfilter, FIL 410A	N/A	N/A	40.0 kb/day (same as S-1003)	14.6 MMBBL/year (average. of 40.0 kb/day) (Grandfathered Source)
S-52	HCU Total Feed Sandfilter, FIL 410B	N/A	N/A	40.0 kb/day (same as S-1003)	14.6 MMBBL/year (average. of 40.0 kb/day) (Grandfathered Source)
S-55	Storage, Refinery sour waste water, (TK. 2801 SOUR WATER STORAGE)	N/A	N/A		5.61 MMBBL/year (based on 15.4 Kbbl/d) (Grandfathered Source)
S-56	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-401)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 - 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-57	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-58	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-59	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-60	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-61	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-62	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-63	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1711, GASOLINE COMP)	N/A	N/A	10920 kgal	62.8 MMBBL/year combined with S-73, 74, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-64	Tank, External Floating Roof, GREEN, Gas oil, Welded, Pontoon (TK-1712, GAS OIL)	N/A	N/A	13524 kgal	14.235 MMBBL/year combined with S-66, 67, 68 and 72 (based on combined total of 39.0 kBBL/day) (Grandfathered Source)
S-66	Tank, External Floating Roof, Distillate oil, Welded, Pontoon (TK-1714, GAS OIL)	N/A	N/A	8400 kgal	14.235 MMBBL/year combined with S-64, 67, 68 and 72 (based on combined total of 39.0 kBBL/day) (Grandfathered Source)
S-67	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-68	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-72	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-73	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1733, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year combined with S-63, 74, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-74	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-75	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1736, GASOLINE COMP)	N/A	N/A	3360 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-76	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1737, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-77	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1738, GASOLINE)	N/A	N/A	3360 kgal	7.4 MMBBL/365-day Gasoline (Based on prior MTBE production of 4.5 kBBL/day plus 5.8 MMBBL/year of MTBE receipts through S-207 (Grandfathered Source)
S-78	Tank, External Floating Roof, GREEN, Alkylate, Welded, Pontoon (TK-1739, GASOLINE COMPONENT)	N/A	N/A	6804 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 76, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-79	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1751, GASOLINE)	N/A	N/A	5040 kgal	49.275 MMBBL/year combined with S-80, 82, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-80	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1752, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 82, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-81	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1753, SLOP/GASOLINE)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-85, 103 and 104 (actual) (Grandfathered Source)
S-82	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1754, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-83	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1755, GASOLINE)	N/A	N/A	5040 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-84	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1756, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-85	Tank, External Floating Roof, GOLD, Water/organics mixture, Waste oil, Welded, Pontoon (TK-1757, SLOP/GASOLINE)	N/A	N/A	1260 kgal	8.21 MMBBL/year combined with S-81, 103 and 104 (actual) (Grandfathered Source)
S-86	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1758, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-87	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1759, GASOLINE)	N/A	N/A	650 kgal	13.0 MMBBL/year combined with S-88, 89, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-88	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1760, GASOLINE w/Primary and Secondary Seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-89	Tank, Internal Floating Roof, 6WHITE, Gasoline - unleaded, Welded, Pan (TK-1761, GASOLINE)	N/A	N/A	651 kgal	13.0 MMBBL/year combined with S-87, 88, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-90	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1762, GASOLINE w/liquid mounted primary and secondary seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 89 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-91	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1763, GASOLINE w/liquid mounted primary and secondary seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 89 and S-90 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-92	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1771, JP4)	N/A	N/A	4620 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84, 86 & 97 (based on 135 kBBL/day) (Grandfathered Source)
S-97	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1776, JP4)	N/A	N/A	4620 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 76, 78 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-101	Tank, Internal Floating Roof, GOLD, Water/organics mixture, Welded, Pan (TK-1791, SLOP w/ primary & secondary seals)	N/A	N/A	189 kgal	5 MMBBL/year (based on 400 gpm rate) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-103	Tank, Internal Floating Roof, GREEN, Water/organics mixture, Welded, Pan (TK-1793 SLOP)	N/A	N/A	676 kgal	8.21 MMBBL/year combined with S-81, 85, and 104 (actual) (Grandfathered Source)
S-104	Tank, External Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1795, SLOP)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-81, 85, and 103 (actual) (Grandfathered Source)
S-105	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1796, WWTP SLOP)	N/A	N/A	189 kgal	690.5 kBBL/year – Derived from Condition #8771 (Grandfathered Source)
S-106	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1797, SLOP)	N/A	N/A	76 kgal	548 kBBL/year (actual) (Grandfathered Source)
S-108	Tank, Pressure, GOLD, Organic liquid -other/not spec, (TK-1801, MMT)	N/A	N/A	16,800 gal	6.85 kBBL/year (Grandfathered Source)
S-110	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1803, HTA)	N/A	N/A	16,800 gal	260 kBBL/year (actual) (Grandfathered Source)
S-111	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1804, HTA)	N/A	N/A	71 kgal	5300 kBBL/year (actual) (Grandfathered Source)
S-112	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pan (TK-1805, TEL WASH)	N/A	N/A	336 kgal	547.5 kBBL/year (based on 1.5 kBBL/day) (Grandfathered Source)
S-113	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1806, LUBRISOL)	N/A	N/A	2520 gal	85 BBL/year (Grandfathered Source)
S-114	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1807, GASOLINE RED DYE)	N/A	N/A	2520 gal	85 BBL/year (actual) (Grandfathered Source)
S-115	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1808, GASOLINE ORANGE DYE)	N/A	N/A	2520 gal	55 BBL/year (actual) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-117	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1810, CORROSION INHIBITOR)	N/A	N/A	6300 gal	200 BBL/year (actual) (Grandfathered Source)
S-120	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec,(TK-1813, METAL DEACT)	N/A	N/A	2520 gal	73 BBL/year (actual) (Grandfathered Source)
S-122	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK 1814, ADDITIVES)	N/A	N/A	2540 gal	85 BBL/year (Grandfathered Source)
S-124	Tank, Pressure, GOLD, Paraffins - C3+, (TK-1735, PENTANES)	N/A	N/A	3360 kgal	3.28 MMBBL/year (average of 9.0 kBBL/day) (Grandfathered Source)
S-129	Loading, Ship, Ship, 7 Loading Arms (Total) and 3 Loading Arms (Gasoline), Multi-liquid, Unknown fill (Crude / Product Dock (renamed July 1995))	Continental EMSCO Loading arms	4 – CEHMA-10; 3 – CEHMA-6	240 kBBL/day (based on 10kBBL/hour)	9.39 MMBBL/year gasoline loaded (average of 25.7 kBBL/day) (New Source Review)
S-131	Storage, Refinery sludge, (WASTE WATER SLUDGE TANK TK-2069)	N/A	N/A		29 MM gal/12-month Derived from Condition #8771 (Grandfathered Source)
S-132	Storage, Caustic waste, (Tk 2711, SPENT CAUSTICS)	N/A	N/A		325 kBBL/year (Grandfathered Source)
S-133	Storage, Acid - waste, (TK 2712, SPENT ACID)	N/A	N/A		219 kBBL/year (average of 600 BBL/day) (Grandfathered Source)
S-134	Storage, Caustic waste, (TK 2713, SPENT CAUSTIC SURGE)	N/A	N/A		207 kBBL/year (Grandfathered Source)
S-143	Tank, Vertical Fixed Roof, UN, Hydrocarbon - mixtures, other/not spec, (Corrosion Inhibitor Tank (EC1010A or equivalent)) TK-1034	N/A	N/A	4500 gal	15 kgal/12-month (Condition #13045) (New Source Review)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-150	Refinery sour waste water, (TK 2051, PRIMARY SLUDGE THICKENER)	N/A	N/A		3.19 MMBBL/year feed (design basis of 255 gpm) (Grandfathered Source)
S-151	Wastewater storage - ponds, Stormwater and processwater, (Wastewater Equalization Pond)	N/A	N/A		S-151 contains diverted process/stormwater. Very low concentrations of HC bearing compounds would be detected in this water. For the most part these ponds are dry. No throughput limits would be applicable (Grandfathered Source)
S-154	Refinery sour waste water (WASTE WATER BIOXIDATION UNIT 2053A)	N/A	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-155 and 169 (average of 2600 gpm) (Grandfathered Source)
S-155	Refinery sour waste water, (WASTE WATER BIOXIDATION UNIT 2053B)	N/A	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm	32.5 MMBBL/year combined with S-154 and 169 (average of 2600 gpm) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-156	Wastewater storage - ponds, (WASTE WATER RETENTION POND)	N/A	N/A		S-156 contains diverted process/stormwater. Very low concentrations of HC bearing compounds would be detected in this pond. For the most part these ponds are normally dry. No throughput limits apply (Grandfathered Source)
S-157	Storage, Sulfur, (SULFUR STORAGE PIT AT SULFUR PLANTS)	N/A	N/A	1147 short tons/day (average of 47.8 short tons/hour) Sulfur production	116,800 short tons/year (combined permit condition sulfur production from S-1 and S-2) (Grandfathered Source)
S-158	Tank, Vertical Fixed Roof, GOLD, Perchloroethylene (PERC), Carbon tetrachloride, 7 ft diameter (TK 2902, Carbon Tetrachloride)	N/A	N/A	2300 gal	10 kgal/12-month (PERC) (Condition #9584) (New Source Review)
S-159	Other petroleum products; Other, Lube oil, (S.G.701 & G.T.701 Lube Oil Reservoir)	Custom	N/A	410.4 kgal/day (average. of 17.1 kgal/hour)	149.8 MMgal/year (based on 410.4 kgal/day) (Grandfathered Source)
S-160	Other petroleum products; Other, Lube oil, 7 days/wk, 24 hours/day, 2 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C1031)	Custom	N/A	38.4 kgal/day (average. of 1.6 kgal/hour)	14.0 MMgal/year (based on 38.4 kgal/day) (Grandfathered Source)
S-161	Separator - oil/water, Waste water, (OILY WATER SEWER PIPELINE)	N/A	N/A		Throughput limit not prudent for sewer system which handles both oily water and stormwater (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-163	Tank, External Floating Roof, GOLD, Waste oil, Gasoline - unleaded, Welded, Pontoon (TK 1732, GASOLINE COMPONENT)	N/A	N/A	3780 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 76, 78 and 97 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-165	GDF, vehicle, non-retail-fee, balance (Phase 2), 2 tanks, 1 exempt nozzle, 1 gasoline nozzle (GDF #6764)	Nozzle: Gilbarco Balance System: Emco Wheaton	Nozzle: 625-100 Balance System: #A3003		2.2 kBBL/year (Grandfathered Source)
S-167	Other petroleum products; Other, Oil - non-fuel, other/not spec, 6.6 tons/hour max, 7 days/wk, 24 hours/day, 50 wks/year (Seal Oil Sparger for Compressor C-401)	N/A	N/A	25.1 kgal/day (average. of 17.4 gpm)	9.15 MMgal/year (based on 25.1 kgal/day) (Grandfathered Source)
S-168	Other petroleum products; Other, Paraffins - C3+, 1.7 N/A/hour max, 7 days/wk, 24 hours/day, 50 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C-2901)	N/A	N/A	21.6 kgal/day (average of 15 gpm)	7.9 MMgal/year (based on 21.6 kgal/day) (Grandfathered Source)
S-169	Other process/not specified, Refinery waste water, 1.25 thou barrels/hour max, 7 days/wk, 24 hours/day, 52 wks/year (Third Bioxidation Unit)	Custom	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-154 and 155 (based on 89.1 kBBL/day) (New Source Review)
S-170	Removed from Service				
S-171	Removed from Service				

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-173	Process Heater/Furnace, Refinery make gas (RMG) (Coker Steam Superheat Furnace F-902)	Burners: John Zink	PVYD SF 16 (or equivalent)	5.28 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 22 MMBTU/hour (HHV)) (Regulation 9, Rule 10 Compliance Plan)	1.93 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 22 MMBTU/hour (HHV)) (New Source Review)
S-174	Material Handling/Miscellaneous, Lime, (TK 2321, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year (New Source Review)
S-175	Material Handling/Miscellaneous, Lime, (TK 2322, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year (New Source Review)
S-176	Material handling - other/not, Salt, (TK 2325, Brine Saturator)	Scienco (or equivalent)	N/A	50 tons/day	600 tons/year (New Source Review)
S-177	Removed from Service				
S-180	Removed from Service				
S-188	Separator - oil/water, Waste water, 1 days/wk, 24 hours/day, 52 wks/year (Oil/Water/Sediment Separator)	WEMCO	Pacesetter	24 kBBL/day (permit limit)	8.76 MMBBL/year (permit limit) (New Source Review)
S-189	Separator - oil/water, Waste water, (Induced Static Flotation Cell)	L'eau Claire Int'l	75x	24 kBBL/day (permit limit)	8.76 MMBBL/year (permit limit) (New Source Review)
S-193	Other petroleum products; Other, Waste water (TK 2027, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-196 (total of 3000 gpm) (New Source Review)
S-194	Separator - oil/water, Waste water, (Oil/Water/Sediment Separator #2006)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-195	37.5 MMBBL/year combined with S-195 (total of 3000 gpm) (New Source Review)
S-195	Separator - oil/water, Waste water (Oil/Water/Sediment Separator #2056)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-194	37.5 MMBBL/year combined with S-194 (total of 3000 gpm) (New Source Review)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-196	Other petroleum products; Other, Waste water (TK 2077, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-193 (total of 3000 gpm) (New Source Review)
S-197	Separator - oil/water, Waste water (Induced Static Flotation Cell #2007)	L'eau Claire Int'l	unknown	102.9 kBBL/day combined with S-198	37.5 MMBBL/year combined with S-198 (total of 3000 gpm) (New Source Review)
S-198	Separator - oil/water, Waste water (Induced Static Flotation Cell #2057)	L'eau Claire Int'l	unknown	102.9 kBBL/day combined with S-197	37.5 MMBBL/year combined with S-197 (total of 3000 gpm) (New Source Review)
S-199	Tank, Vertical Fixed Roof, GOLD, Crude oil, (Oil Collection Drum D-2055)	N/A	N/A	1300 gal	41.7 kBBL/year (based on 200 gal/hour) (New Source Review)
S-200	Other petroleum products; Other, Oil/water mixture, (Collection Drum D-2056)	N/A	N/A		2.50 MMBBL/year (design basis of 200 gpm) (New Source Review)
S-202	Loading, Truck, 1 Loading Arm (Total), Crude oil, Bottom/Submerged fill (Vacuum Truck Loading from Tank (S-131))	N/A	N/A	79.5 kgal/day	29 MMgal/year Condition #8771 (New Source Review)
S-205	Other petroleum products; Other, Waste water (Surge Tank #2026)	N/A	N/A		37.5 MMBBL/year combined with S-206 (total of 3000 gpm) (New Source Review)
S-206	Other petroleum products; Other, Waste water (Surge Tank #2076)	N/A	N/A		37.5 MMBBL/year combined with S-205 (total of 3000 gpm) (New Source Review)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-207	Tank, External Floating Roof, GOLD, Mogas/Components, Welded, Pontoon (Tk 1740)	N/A	N/A	14,700 kgal	16.9364 MMBBL/365-day (mogas/components) (Condition #10797) (New Source Review) and MTBE Phaseout Application 2035
S-208	Other petroleum products; Other, Petroleum products - other/not spec, (Coker Feed Drum D-920)	N/A	N/A		29 MMgal/12-month (Condition #8771) (New Source Review)
S-209	Loading, Truck, 5 Loading Arms (Total), Bottom/Submerged fill Methanol/Ethanol service.	N/A	"Dry-break" nozzles		2,920 trucks/12-month (Condition #9296) (New Source Review) and MTBE Phaseout Application 2035
S-210	Tank, Internal Floating Roof, - UN, Methanol/ethanol, Welded (TK-1820)	N/A	N/A	630 kgal	575 kBBL methanol/ethanol/12-month (Condition #9296) (New Source Review) and MTBE Phaseout Application 2035
S-211	Alkylate Debutanizer T-4302 (in former MTBE unit)	N/A	N/A	22.8 kBBL/day alkylate (limit based on S-1007 capacity.)	8.32 MMBBL/year (based on 22.8 kBBL/day alkylate) (New Source Review) and MTBE Phaseout Application 2035
S-220	Combustion, Furnace - Other, Refinery make gas (RMG) (F-4460 Hot Oil Furnace)	Custom	N/A	84.24 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum rate of 351 MMBTU/hour) (9-10 Compliance Plan)	28.908 MMtherms/365-day (Condition #10574) (New Source Review)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-227	Tank, Vertical Fixed Roof, GOLD, Multi-liquid, (C5/Heatcut/Mogas Component Storage Tank)	N/A	N/A	7350 kgal	3.14 MMBBL/year (average. of 8.6 kBBL/day) (New Source Review)
S-232	Material handling - (ESP Fines Vacuum Conveying System)	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727) (New Source Review)
S-233	Storage, (ESP Fines Storage Bin)	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727) (New Source Review)
S-234	Fixed roof tank, 2kgal, demulsifier	N/A	N/A	2 kgal	121.8 kgal/year (New Source Review)
S-235	Fixed roof tank, 1kgal, demulsifier	N/A	N/A	1 kgal	60.9 kgal/year (New Source Review)
S-236	Product Sulfur Tank 1901-(new)	N/A	N/A	126 kgal	116,800 short tons/year sulfur production (Combined sulfur production from S-1 and S-2 (New Source Review)
S-237	BOILER-SG1032-(new)	Babcock & Wilcox; Burners: Todd	Type D; Burners: Veriflame SV925 IGO	75.60 ktherms/day average of 315 MMBTU/hour (Condition #16027-19)	25.0536 MMtherms in any 365 consecutive day period (average of 286 MMBTU/hour) (Condition #16027-18) (New Source Review)
S-239	Crude/Product dock Sump (TK-1918)	N/A	N/A	3100 gal	102 kgal/year (New Source Review)
S-240	Emergency Diesel Engine for Break Tank Raw Water Pump, (P-2401C)	Caterpillar	3408 B, 550 HP		<100 hours/year reliability-related activities (Grandfathered Source)
S-241	Emergency Diesel Engine for Crude Field Firewater Pump, (P-2602)	Cummin	NT-855-FS, 230 HP		<100 hours/year reliability-related activities (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-242	Emergency Diesel Engine for Dock Firewater Pump (P-2607B)	Cummin	VTA-1710-P700, 700 HP		<100 hours/year reliability-related activities (Grandfathered Source)
S-243	Emergency Diesel Engine for Control Room Standby Power (DG-5101)	Detriot Diesel	Series 92, Model 8163-7405, 1095 HP		<100 hours/year reliability-related activities (New Source Review)
S-1002	Hydrotreating/hydrofining, Diesel oil, (DIESEL HYDROFINER)	N/A	N/A	14.0 kBBL/day feed (design safety valve limit)	5.1 MMBBL/year feed (14.0 kBBL/day) (Grandfathered Source)
S-1003	Hydrocracking, Distillate oil, 7 days/wk, 24 hours/day, 48 weeks/year (HYDROCRACKER)	N/A	N/A	40.0 kBBL/day fresh feed (design safety valve limit)	14.6 MMBBL/year fresh feed (40.0 kBBL/day) (Grandfathered Source)
S-1004	Catalytic reforming, Reformate, (CATALYTIC REFORMER-(PFR))	N/A	N/A	39.8 kBBL/day (maximum actual and BAAQMD Condition # 18794, Part 1) feed	12.739 MMBBL/year feed (annual average. of 34.9 kBBL/day) (New Source Review)
S-1005	Hydrotreating/hydrofining, Gas oil, (CAT. FEED HYDROFINER)	N/A	N/A	41.4 kBBL/day feed (design feed pump)	15.1 MMBBL/year (41.4 kBBL/day) (Grandfathered Source)
S-1006	Distillation - crude, Crude oil, (CRUDE UNIT WITH 55E6 BTU/hour HEAT EXCHANGER)	N/A	N/A	135 kBBL/day crude oil feed (condition # 815)	49.3 MMBBL/year (based on 135 kBBL/day) (New Source Review)
S-1007	Alkylation, Alkylate, (ALKYLATION UNIT)	N/A	N/A	22.8 kBBL/day (limit based on A/N 3782)	8.32 MMBBL/year (based on 22.8 kBBL/day per A/N 3782) (New Source Review)
S-1008	Hydrotreating/hydrofining, Gasoline - leaded, Gasoline - unleaded, (GASOLINE HYDROFINER)	N/A	N/A	35.0 kBBL/day feed (unit hydraulic limit)	12.8 MMBBL/year feed based on a design rate of 35.0 kBBL/day. (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-1009	Hydrotreating/hydrofining, Fuel - jet 'A', (JET FUEL HYDROFINER)	N/A	N/A	17.9 kBBL/day feed (design safety valve limit)	6.5 MMBBL/year feed (17.9 kBBL/d) (Grandfathered Source)
S-1010	Hydrogen manufacturing, Refinery make gas (RMG), 5900000 million cubic feet/hour max, (HYDROGEN PLANT)	N/A	N/A	164 MMscf/day combined product hydrogen from both A and B trains (CFP duty permit limit)	59,900 MMscf/year combined product H2 (164 MMScf/day) (Grandfathered Source)
S-1011	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, (HEAVY CAT NAPHTHA HYDROFINER)	N/A	N/A	25.0 kBBL/day (design safety valve limit)	9.1 MMBBL/year (25.0 kBBL/day) (Grandfathered Source)
S-1012	Feedstock; Other/not specified, Petroleum products -other/not spec, (Dimersol Unit)	N/A	N/A	5.0 kBBL/day propylene feed	1.825 MMBBL/year (based on 5.0 kBBL/day) (New Source Review)
S-1013	Tank, Pressure, YELLOW, Hexane, Organic liquid -other/not spec, (Dimersol Unit - (D2720) EADC 10.0 kgal Tank)	N/A	N/A	10 kgal	2.84 kBBL/year (design pump limit) (New Source Review)
S-1014	Feedstock; Other/not specified, (Cat Light Ends Process Unit)	N/A	N/A	90.0 kBBL/day total feed (design limit)	32.8 MMBBL/year total feed (90.0 kBBL/day) (Grandfathered Source)
S-1020	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Heartcut Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1021	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 100 thou barrels/day max, (Heartcut Saturation Unit)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1022	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Cat. Reformer T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)

II. Equipment

Table II A - Permitted Sources

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 for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-1023	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Cat. Naphtha T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1024	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 24 thou barrels/ day max, (Light Cat. Naphtha Hydrotreater)	N/A	N/A	24 kBBL/day	8.76 MMBBL/year (based on 24 kBBL/day) (New Source Review)
S-1026	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (C5/C6 Splitter)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1027	Pentane Rail Car Loading Rack	N/A	N/A	22,500 bbls/day	8.215 MM Bbl/year Condition #17835 (New Source Review)
S-1030	Combustion Turbine Generator (Refinery Fuel Gas and/or Natural Gas Fired)	General Electric	LM 6000	500 MMBTU/hour	6,351,000 MMBTU/year (combined S-1030 & S-1031) (New Source Review)
S-1031	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,351,000 MMBTU/year (combined S-1030 & S-1031) (New Source Review)
S-1032	Combustion Turbine Generator (Refinery Fuel Gas and/or Natural Gas Fired)	General Electric	LM 6000	500 MMBTU/hour	6,351,000 MMBTU/year (combined S-1032 & S-1033) (New Source Review)
S-1033	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,351,000 MMBTU/year (combined S-1032 & S-1033) (New Source Review)

II. Equipment

Table II B - Exempt Sources

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-65	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1713, RESID)	N/A	N/A	5250 kgal	Exempt
S-69	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, Gas oil, (TK-1717, RESID)	N/A	N/A	5250 kgal	Exempt
S-70	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-71	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-93	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1772, JP5)	N/A	N/A	4620 kgal	Exempt-jet fuel
S-94	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1773, JP5)	N/A	N/A	1050 kgal	Exempt-jet fuel
S-95	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1774, DIESEL)	N/A	N/A	3150 kgal	Exempt-distillate
S-96	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1775, DIESEL)	N/A	N/A	3150 kgal	Exempt-distillate
S-98	Tank, Vertical Fixed Roof, WHITE, Distillate oil, (TK-1777, DIESEL)	N/A	N/A	651 kgal	Exempt-distillate
S-99	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1778, ETFA)	N/A	N/A	2373 kgal	Exempt-jet
S-100	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1779, ETF-A)	N/A	N/A	2373 kgal	Exempt-jet
S-107	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1798, DIESEL (FUEL OIL))	N/A	N/A	4410 kgal	Exempt-distillate
S-109	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1802, GASOLINE ANTI-OXIDANT)	N/A	N/A	16,800 gal	Exempt-additive
S-116	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1809, PETROX)	N/A	N/A	39 kgal	Exempt-additive
S-118	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1811, AO33)	N/A	N/A	17 kgal	Exempt-additive
S-119	Tank, Vertical Fixed Roof, GOLD, Organic	N/A	N/A	16,800 gal	Exempt-additive

II. Equipment

Table II B - Exempt Sources

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
	liquid -other/not spec, (TK-1812, ANTI-ICE)				
S-121	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (D-807, POLYSULFIDE DRUM)	N/A	N/A	6468 gal	Exempt-additive
S-123	Tank, Vertical Fixed Roof, GOLD, (TK-1794,) Diesel Red Dye	N/A	N/A	8400 gal	Exempt
S-127	Loading, Motor Vehicle, Motor Vehicle Refueling Station, 1 Loading Arms (Total) and 0 Loading Arms (Gasoline), Distillate oil, Bottom/Submerged fill (DIESEL DISPENSER, SERVICES BLDG AREA)	Gilbarco Loading Arm	625-100		Exempt-distillate
S-140	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1204, MEA INVENTORY)	N/A	N/A	10600 gal	Exempt-additive
S-142	Tank, Vertical Fixed Roof, YELLOW, Fresh Caustic, TK-103	N/A	N/A	7 kgal	Exempt-additive
S-145	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1201, – MDEA ACCUMULATOR (20% SOLUTION))	N/A	N/A	47 kgal	Exempt-additive
S-185	Tank, Vertical Fixed Roof, UN, Organic liquid -other/not spec, (Cationic Polymer Tank)	N/A	N/A	5 kgal	Exempt
S-192	Other petroleum products; Other, Waste water (TK 2052, Thickener)	N/A	N/A		Exempt-additive
S-201	Loading, Truck, 1 Loading Arm (Total), Waste water, Bottom/Submerged fill (Vacuum Truck Loading from Thickener Tank (S-192))	N/A	N/A		Exempt
S-214	Process drain - w/o controls, Waste water - (BIOX Aerator for Stripped Sour Water)	N/A	N/A		Exempt
S-215	Process drain - w/o controls, Waste water - (BIOX Clarifier for Stripped Sour Water)	N/A	N/A		Exempt
S-217	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-218	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt

II. Equipment

Table II B - Exempt Sources

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-219	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-238	BIOX Aerator for stripped sour water TK-2083	N/A	N/A		Exempt
S-1019	Other petroleum products; Other (Laboratory Sample Waste Sinks)	N/A	N/A		Exempt
S-32000	Combustion, Minor Sources, Natural gas (MINOR SOURCES)	N/A	N/A		Pilot gas to combustion devices, excluding flares - Exempt
S-32100	Refinery vacuum products (Fugitive Sources - Vacuum Producing Systems)	N/A	N/A		Exempt
S-32101	Refinery process vessels (Fugitive Sources – Process Vessel Depressurization)	N/A	N/A		Exempt
S-32102	Refinery valves/flanges (Fugitive Sources – Valves and Flanges)	N/A	N/A		Exempt
S-32103	Refinery pumps/compressors (Fugitive Sources - Pumps & Compressor Seals)	N/A	N/A		Exempt
S-32104	Refinery pressure relief valve (Fugitive Sources - Pressure Relief Valves)	N/A	N/A		Exempt
S-32105	Refinery process drains (Fugitive Sources – Process Drains)	N/A	N/A		Exempt
S-32110	Refinery flaring/blowdown (Process Gas (Combustion) Emissions from Flares and Blowdown Systems)	N/A	N/A		Exempt
S-230	TK-4460 Dowtherm Storage Tank	N/A	N/A		Exempt
S-231	Aqueous Ammonia Storage Drum	N/A	N/A		Exempt
S-244	Tank, Vertical Fixed Roof, YELLOW, Aqueous Cationic Polymer Solution Tank TK-2317	N/A	N/A	5500 gallons	Exempt (Regulation 2-1-123.3.3)
S-245	Membrane Filtration Unit	Zenon	ZeeWeed MBR	400 gpm	Exempt (Regulation 2-1-123.2)
None	TK-1730 Flushing Oil Tank	N/A	N/A		Exempt
None	TK-1721 LPG Sphere	N/A	N/A		Exempt
None	TK-1722 LPG Sphere	N/A	N/A		Exempt
None	TK-1723 LPG Sphere	N/A	N/A		Exempt
None	TK-1724 LPG Sphere	N/A	N/A		Exempt
None	TK-1725 LPG Sphere	N/A	N/A		Exempt
None	TK-1726 Refrigerated Butane Tank	N/A	N/A		Exempt

II. Equipment

Table II B - Exempt Sources

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
None	D-3905 A/B Anhydrous Ammonia Drums	N/A	N/A		Exempt
None	LPG Truck Loading Rack	N/A	N/A		Exempt per BAAQMD Regulation 2-1-123.3.1
None	Octane Test Engines	N/A	N/A		Exempt
None	Post-BIOX Selenium Removal Facilities	N/A	N/A		Exempt
None	TK-2700 Fresh Caustic Tank	N/A	N/A		Exempt
None	Nitrogen Plant	N/A	N/A		Exempt
None	Assorted Organic Liquid Storage Vessels and Containers Less Than 260 gallons	N/A	N/A		Exempt
None	Assorted Tanks, Vessels, and Pumping Equipment Associated with Aqueous Solutions	N/A	N/A		Exempt
None	Assorted Containers, Tanks, Reserviors and Loading Equipment Associated with Heavy and/or Low Volatility Organic Liquids	N/A	N/A		Exempt
None	TK-2710 Fresh Acid Tank, 98% Sulfuric Acid	N/A	N/A		Exempt per BAAQMD Regulation 2-1-123.2.
None	Cogeneration Plant Cooling Tower	N/A	N/A		Exempt per BAAQMD Regulation 2-1-128.4

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	A-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
2	B-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
3	C-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
4	D-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
5	E-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
6	Baghouse on WWTP Activated Carbon Bin	11	6-301	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr
7	Baghouse on Util Lime Silo	12	6-301	Visible emissions from Lime Silo	Ringelmann No. 1 < 3 min/hr
8	Baghouse on Coke Silos	8	6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
9	Venturi Scrubber/Cyclone Separator on Coke Silos	8	6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
10	Baghouse on Coke Silos	8	6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
11	Vapor Recovery Compressor on TK-1735	124	8-5-306	Tank pressure	95% recovery efficiency
12	Vapor Recovery Compressor on TK-1735	124	8-5-306	Tank pressure	95% recovery efficiency
13	Vapor Recovery Compressor Flare Gas Recovery Header	9, 51, 52, 133, 160, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027	6-301	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr
14	SGU-A Incinerator (use only for upsets/emergencies)	1	9-1-307	None	250 ppm SO2 at 0% O2 for < 1 hour
15	SGU-B Incinerator (use only for upsets/emergencies)	2	9-1-307	None	250 ppm SO2 at 0% O2 for < 1 hour
19	Vapor Recovery Compressor on TK-2801	55	8-5-306	Tank pressure	95% recovery efficiency
20	Tertiary Cyclone on FCCU Regenerator	5, 13	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
22	Cyclone on FCCU Catalyst Railcar Unloading Hopper	10	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
23	Bag Filter on FCCU Catalyst Railcar Unloading System	10	6-301	Visible emissions from railcar unloading system	Ringelmann No. 1 < 3 min/hr
24	Tail Gas Hydrogenation Unit on SGU A/B Trains (Beavon Section), preparing tail gas for A-56	1, 2	9-1-307	TRS and H2S monitor on A-56 Flexsorb Stack	250 ppm SO2 at 0% O2 for < 1 hour
25	Thermal De-NOx System on F-401	23	BAAQMD Condition # 14318 [1]	NOx/O2 CEM on F-401 stack (BAAQMD Condition # 14318 [2])	40 ppm @ 3% O2, 8 hour average.
26	Vapor Recovery Compressor Flare Gas Recovery Header	9, 51, 52, 133, 160, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027	6-301	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr
27	Vent Disposal to SG-701 for FCCU Lube Oil Reservoir	159	6-301	Visible emissions on Lube Oil Reservoir vent	Ringelmann No. 1 < 3 min/hr
29	Carbon Adsorption Unit (DVRU) on Marine Loading Dock	129	8-44-301, BAAQMD Condition # 1709 [3]	VOC continuous monitor on DVRU stack (BAAQMD Condition # 1709 [5])	95% recovery efficiency, or 2 lb VOC/1,000 BBL loaded
36	Carbon Canisters on WWTP Upstream Diversion Tanks	193, 196, 205, 206	BAAQMD Condition # 11880 (2), 60.112b(a)(3)(ii), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/37 carbon	15 lb/day total NMHC from A-36 and A-37, averaged over one month, 95% recovery efficiency (NSPS Kb,

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
				beds (BAAQMD Condition # 11880 [3], [7])	NESHAPS FF)
37	Carbon Canisters on WWTP On-Site Equipment	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition # 11879 (10), BAAQMD Condition # 11882 (10), COND ID# 11888 (10), BAAQMD Condition # 13319 (15), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/37 carbon beds (BAAQMD Condition # 11879 [11], [16], BAAQMD Condition # 11882 [11], [16], BAAQMD Condition # 11888 [11], [16], BAAQMD Condition # 13319 [16], [18])	15 lb/day total NMHC from A-36 and A-37, averaged over one month, 95% recovery efficiency (NESHAPS FF))
38	Vapor Balance System on truck loading WWTP sludge from TK-2051	201	BAAQMD Condition # 11883 (1)	Fugitive inspection	100 ppm leak standard
39	Vapor Balance System on truck loading WWTP sludge from D-2069	202	BAAQMD Condition # 11884 (1)	Fugitive inspection	100 ppm leak standard
40	Vapor Recovery Compressor on Coker Feed Tanks	65, 69, 70, 71	None (exempt tanks)	None	None
41	Vapor Recovery Compressor on Coker Feed Tanks	65, 69, 70, 71	None (exempt tanks)	None	None
45	Selective Catalytic Reduction for F-4460	220	BAAQMD Condition # 10574 [23], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on F-4460 stack BAAQMD Condition # 10574 [27], 60.48b(b)(1)	10 ppm NOx, dry, 3% O2, 3-hr average, 0.1 lb/MMBTU (~84 ppmv NOx, 30-day average. NSPS Db, and 24-hr average. BAAQMD 10-9)
46	Vapor Recovery Compressor for TK-1741	227	8-5-306, BAAQMD Condition # 10574 [42], 60.112b(a)(3)(ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
47	Vapor Recovery Compressor for TK-1741	227	8-5-306, BAAQMD Condition # 10574 [42], 60.112b(a)(3)(ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
51	Selective Catalytic Reduction for GT-702	37, 45	9-9-301.3, BAAQMD Condition # 16386 [1], [2]	NOx/O2 CEM on GT/SG-702 stack	9 ppmv NOx, dry, 15% O2, 3-hr average.
52	Thermal De-NOx System for F-101	3	9-10-304.1	NOx/O2 CEM on Main Stack (9-10-502)	150 ppm, dry, 3% O2 , daily average.
53	Thermal De-NOx System for F-102	4	9-10-304.1	NOx/O2 CEM on Main Stack (9-10-502)	150 ppm, dry, 3% O2 , daily average.
54	Baghouse on ESP fines vacuum conveying system	232	6-301, BAAQMD Condition # 12727 (3)	Visible emissions from vacuum conveying system	Ringelmann No. 1 < 3 min/hr
55	Baghouse on ESP fines storage bin	233	6-301, BAAQMD Condition # 12727 (4)	Visible emissions from storage bin	Ringelmann No. 1 < 3 min/hr
56	Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section)	1, 2	9-1-307	TRS and H2S monitor on Flexsorb Stack	250 ppm SO2 at 0% O2 for < 1 hour
57	Thermal Oxidizer for WWTP On-Site equipment	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition # 11879 (3), (4), BAAQMD Condition	Continuous temperature monitor on oxidizer outlet	1400 F minimum outlet temperature to ensure >98.5 weight.%

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			# 11882 (3), (4), BAAQMD Condition # 11888 (3), (4), BAAQMD Condition # 13319 (3), (4), 61.349(a)(2)(i)(A)	(BAAQMD Condition # 11879 [5], BAAQMD Condition # 11882 [5], BAAQMD Condition # 11888 [5], BAAQMD Condition # 13319 [5]), 61.354(c)(1)	destruction efficiency, (>95% destruction efficiency for NESHAPS FF)
57	Thermal Oxidizer for WWTP On-Site equipment	194, 195	BAAQMD 8-8-302.3 SIP 8-8-302.3	BAAQMD Condition # 13319 [5]),	1400 F minimum outlet temperature to ensure >98.5 weight.% destruction efficiency, (>95% combined collection and destruction efficiency for BAAQMD 8-8-302.3)
57	Thermal Oxidizer for WWTP On-Site equipment	197, 198	BAAQMD 8-8-307.2 SIP 8-8-307.2	BAAQMD Condition # 13319 [5]),	1400 F minimum outlet temperature to ensure >98.5 weight.% destruction efficiency, (>70% combined collection and destruction efficiency for BAAQMD 8-8-307.2)
57	Thermal Oxidizer for WWTP On-Site equipment	131, 150, 199, 200	BAAQMD 8-5-306	(BAAQMD Condition # 11879 [5], BAAQMD Condition # 11882 [5], BAAQMD Condition # 11888 [5],	1400 F minimum outlet temperature to ensure >98.5 weight.% destruction efficiency, (>95% abatement efficiency for BAAQMD 8-5-306)
58	Selective Catalytic Reduction for SG-1032	237	BAAQMD Condition # 16027 [12], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on SG-1032 stack (BAAQMD Condition # 16027 [16]), 60.48b(b)(1)	9 ppm NOx, dry, 3% O2, 3-hr average, 0.1 lb/MMBTU (~84 ppmv NOx, 30-day average. NSPS Db, and 24-hr average. BAAQMD 10-9)
60	Selective Catalytic Reduction (SCR) System	1030, 1031	BAAQMD Condition # 19177- (18a), (19b); NSPS Db: 60.44b(l)(1); BAAQMD 10-4 (NSPS Db)	NOx CEM (COND# 19177-38; NSPS Db: 60.48b(b)(1); BAAQMD (NSPS Db)	Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 1 hr average. RFG/Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 3-hr average.
61	CO Oxidizing Catalyst System	1030, 1031	BAAQMD Condition # 19177- (18b), (19d)	CO CEM (COND# 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
62	Selective Catalytic Reduction (SCR) System	1032, 1033	BAAQMD Condition # 19177- (18a), (19b); NSPS Db: 60.44b(l)(1); BAAQMD 10-4 (NSPS Db)	NOx CEM (COND# 19177-38; NSPS Db: 60.48b(b)(1); BAAQMD (NSPS Db)	Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 1 hr average. RFG/Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 3-hr average.
63	CO Oxidizing Catalyst System	1032, 1033	BAAQMD Condition # 19177- (18b), (19d)	CO CEM (COND# 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
64	Spare Tail Gas Hydrogenation Unit on SGU	1, 2	9-1-307	TRS and H2S monitor	250 ppm SO2 at 0% O2

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	A/B Trains (Beavon Section), preparing tail gas for A-56			on A-56 Flexsorb Stack	for < 1 hour
176	Baghouse on Brine Saturator Tank (future requirement only if dry salt vs. brine is added)	176	6-301, BAAQMD Condition # 31411 [1]	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr
S-16	Acid Gas Flare	Backup abatement for A-24, 56 & 64, which abate sources 1, 2	See Table IV-A8.1	79,000 lb/hr Capacity	Typically 98% destruction efficiency
S-17	Butane Tank Flare	Backup abatement for the butane recovery compressors for TK-1726 (exempt)	See Table IV-A8.2	16,000 lb/hr Capacity	Typically 98% destruction efficiency
S-18	South Flare	Backup abatement for A-13/26, which abates sources 9, 51, 52, 133, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027	See Table IV-A8.1	1,200,000 lb/hr Capacity	Typically 98% destruction efficiency
S-19	North Flare	Backup abatement for A-13/26, which abates sources 9, 51, 52, 133, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027	See Table IV-A9	886,000 lb/hr Capacity	Typically 98% destruction efficiency

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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 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
(Not Requiring Routine Monitoring)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD · Regulation 1	General Provisions and Definitions (05/02/2001)	N
SIP· Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)	Y
BAAQMD · Regulation 2 · Rule 1	Permits, General Requirements (08/01/2001)	N
SIP Regulation 2 · Rule 1	Permits, General Requirements (SIP Approved) (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 2	Permits, New Source Review (05/17/2000)	N
SIP Regulation 2 · Rule 2	Permits, New Source Review (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 3	Permits, Power Plants (12/19/1979)	Y
BAAQMD · Regulation 2 · Rule 4	Permits, Emissions Banking (05/17/2000)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements
(Not Requiring Routine Monitoring)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 2 · Rule 4	Permits, Emissions Banking (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 6	Permits, Major Facility Review (04/16/2003)	N
SIP Regulation 2 · Rule 6	Permits, Major Facility Review (11/03/1993 and 02/01/1995)	Y
BAAQMD · Regulation 2 · Rule 9	Permits, Interchangeable Emission Reduction Credits (04/07/1999)	N
BAAQMD · Regulation 3	Fees (07/02/2003)	N
SIP· Regulation 3	Fees (05/03/1984)	Y
BAAQMD · Regulation 4	Air Pollution Episode Plan (03/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (08/06/1990)	Y
BAAQMD · Regulation 5	Open Burning (03/06/2002)	N
SIP · Regulation 5	Open Burning (09/04/1998)	Y
BAAQMD · Regulation 6	Particulate Matter and Visible Emissions (12/19/1990)	Y
BAAQMD · Regulation 7	Odorous Substances (03/17/1982)	N
BAAQMD · Regulation 8 · Rule 1	Organic Compounds, General Provisions (06/15/1994)	Y
BAAQMD · Regulation 8 · Rule 2	Organic Compounds, Miscellaneous Operations (06/15/1994)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/2001)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/2002)	Y
BAAQMD · Regulation 8 · Rule 9	Organic Compounds, Vacuum Producing Systems (07/20/1983)	Y
BAAQMD · Regulation 8 · Rule 16	Organic Compounds, Solvent Cleaning Standards (10/16/02)	Y
BAAQMD · Regulation 8 · Rule 28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries (03/19/1998)	Y
BAAQMD · Regulation 8 · Rule 40	Organic Compounds, Contaminated Soil and UST Removal (12/15/1999)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (03/22/1995)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/2002)	N
SIP - Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (02/26/2002)	Y
BAAQMD · Regulation 10 · Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)	Y
BAAQMD · Regulation 11 · Rule 2	Hazardous Pollutants, Asbestos Demolition and Renovation.	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements
(Not Requiring Routine Monitoring)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
	(10/07/1998)	
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/1990)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (09/02/1981)	Y
NESHAPS Title 40 Part 61 Subpart M	NESHAPS, Asbestos (06/19/1995)	Y
Title 40 Part 68	Chemical Accident Prevention Provisions (04/09/04)	Y
Title 40 Part 82 Subpart F	CFC Recycling and Emissions Reduction (03/12/2004)	Y
Title 40 Part 82 Subpart F 82.156	Recycling and Emissions Reductions - Required Practices (03/12/2004)	Y
Title 40 Part 82 Subpart F 82.161	Recycling and Emissions Reductions - Technician Certification (03/12/2004)	Y
Title 40 Part 82 Subpart F 82.166	Recycling and Emissions Reductions - Reporting and Recordkeeping Provisions (03/12/2004)	Y
40 CFR 82, Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (03/05/98)	Y
Title 40 Part 82 Subpart H 82.270(b)	Prohibitions, Halon (03/05/1998)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

The dates in parenthesis 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
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 included at the end of this permit. All other text may be found in the regulations themselves.

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-510	Area Monitoring	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance for Two Years	Y	
1-544	Monthly Summary	Y	
BAAQMD Regulation 2, Rule 1	**General Requirements (8/1/01)**		
2-1-429	Federal Emissions Statement	N	
BAAQMD Regulation 8, Rule 5	**Storage of Organic Liquids (11/27/2002)**		
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Certification	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.2	Source tests for tank degassing equipment	Y	
8-5-604	Determination of applicability	Y	
BAAQMD Regulation 8, Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-304	Sludge Dewatering Unit	N	
BAAQMD Regulation 8, Rule 10	**Organic Compound – Process Vessel Depressurization (1/21/2004)**		
8-10-301	Process Vessel Depressurizing.	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	
SIP Regulation 8, Rule 10	**Organic Compound – Process Vessel Depressurization (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	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
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 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)**		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries	N	
9-1-313.2	Sulfur Removal and Recovery System	N	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
SIP Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (05/20/1992)**		
9-1-313	Sulfur Removal Operations at Petroleum Refineries	Y[1]	
9-1-313.2	Sulfur Removal and Recovery System	Y[1]	
BAAQMD · Regulation 9, Rule 2	**Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/06/1999)**		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
9-2-601	Ground Level Monitoring	N	
BAAQMD · Regulation 11 · Rule 12	**NESHAPS Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste (01/05/1994)**	**Y**	
NSPS Title 40 Part 60 Subpart A	**General Provisions (03/16/1994)**		
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(a)	Notification and Recordkeeping	Y	
40 CFR 60.7(b)	Maintain Records-CEMs	Y	
40 CFR 60.7(c)	Notification and record keeping.	Y	
40 CFR 60.7(d)	Notification and record keeping.	Y	

[1] 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.

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.7(f)	Notification and record keeping.	Y	
40 CFR 60.7(g)	Notification and record keeping.	Y	
40 CFR 60.7(h)	Notification and record keeping.	Y	
40 CFR 60.8	Performance Tests	Y	
40 CFR 60.9	Availability of Information	Y	
40 CFR 60.11	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 60.12	Circumvention	Y	
40 CFR 60.13	Monitoring Requirements	Y	
40 CFR 60.14	Modification	Y	
40 CFR 60.15	Reconstruction	Y	
40 CFR 60.17	Incorporated by Reference	Y	
40 CFR 60.19	General Notification and Reporting Requirements	Y	
NESHAPS Title 40 Part 61 Subpart A	**NESHAPS, General Provisions (03/16/1994)**		
40 CFR 61.01	Lists of Pollutants and Applicability of Part 61	Y	
40 CFR 61.02	Definitions	Y	
40 CFR 61.03	Units and abbreviations	Y	
40 CFR 61.04	Address	Y	
40 CFR 61.05	Prohibited Activities	Y	
40 CFR 61.06	Determination of Construction or Modification	Y	
40 CFR 61.07	Application for Approval of Construction or Modification	Y	
40 CFR 61.08	Approval of construction or modification	Y	
40 CFR 61.09	Notification of startup	Y	
40 CFR 61.10	Source reporting and waiver request	Y	
40 CFR 61.12	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 61.13	Emission Tests and Waiver of Emission Tests	Y	
40 CFR 61.14	Monitoring requirements	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 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
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 61.341	Definitions	Y	
40 CFR 61.342	Standards: General	Y	
40 CFR 61.342(b)	Standards: General; Facility with TAB > 10Mg/year in compliance by 4/7/93	Y	
40 CFR 61.342(c)(1)	Standards: General; Treat benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
40 CFR 61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment units operated in accordance with 61.342(c)(1)(i)	Y	
40 CFR 61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for treatment units for recycled wastes. Recycled wastes subject to 61.342(c)	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
40 CFR 61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(c)(1) (Octane Analyzer Sump)	Y	
40 CFR 61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
40 CFR 61.342(e)(2)(i)	Standards: General; 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene.	Y	
40 CFR 61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity per 61.355(k)	Y	
40 CFR 61.343(a)	Standards: Tanks	Y	
40 CFR 61.343(a)(1)	Standards: Tanks. Closed Vent routed to Control Device	Y	
40 CFR 61.343(a)(1)(B)	Standards: Tanks. Each opening closed and sealed	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)(ii)	Standards: Containers--Openings	Y	
40 CFR 61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
40 CFR 61.345(b)	Standards: Containers--Quarterly inspection	Y	
40 CFR 61.345(c)	Standards: Containers--Repairs	Y	
40 CFR 61.355	Test Methods, Procedures, and Compliance Provisions	Y	
40 CFR 61.356	Recordkeeping Requirements	Y	
40 CFR 61.356(a)	Recordkeeping and retention requirements	Y	
40 CFR 61.356(b)	Waste stream records	Y	
40 CFR 61.356(d)	Recordkeeping Requirements: Control equipment engineering design	Y	
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	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(g)	Recordkeeping Requirements: Visual inspection per 61.343 through	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(j)	Recordkeeping Requirements: Control device operation	Y	
40 CFR 61.357	Reporting Requirements	Y	
40 CFR 61.357(a)	Reporting Requirements; Total Annual benzene quantity	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: Facilities with 10 Mg/yr or more total benzene in waste; Annual report	Y	
40 CFR 61.357(d)(5)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste; Annual report contents required	Y	
40 CFR	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste;	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.357(d)(6)	Quarterly inspection certification		
40 CFR 61.357(d)(7)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste; Quarterly report	Y	
40 CFR 61.357(d)(7)(iii)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste; Quarterly report	Y	
40 CFR 61.357(d)(7)(iv)(A)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste; Quarterly report; Control device requirements; Thermal Oxidizer	Y	
40 CFR 61.357(d)(7)(iv)(I)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste; Quarterly report; Control device requirements; Carbon Adsorption	Y	
40 CFR 61.357(d)(8)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste; Annual Report Summarizing Inspection Findings	Y	
40 CFR 61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
40 CFR 61.357(f)	Reporting Requirements for 61.351 control equipment	Y	
NESHAPS Title 40 Part 63 Subpart A	**General Provisions of MACT Standards (04/22/2004)**		
40 CFR 63.1	Applicability	Y	
40 CFR 63.2	Definitions	Y	
40 CFR 63.3	Units and abbreviations	Y	
40 CFR 63.4	Prohibited activities and circumvention	Y	
40 CFR 63.5	Preconstruction review and notification requirements	Y	
40 CFR 63.6	Compliance with standards and maintenance requirements	Y	
40 CFR 63.7	Performance test 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	
40 CFR 63.11	Control device requirements	Y	
40 CFR 63.12	State authority and delegations	Y	
40 CFR 63.13	Addresses of State air pollution control agencies and EPA Regional Offices	Y	
40 CFR 63.14	Incorporations by reference	Y	
40 CFR 63.15	Availability of information and confidentiality	Y	
40 CFR 63.16	Performance Track Provisions	Y	
40 CFR 63 Subpart B	**National Emission Standards for Hazardous Air Pollutants for Source Categories: General Provisions; and Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (12/27/1996)**		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Combustion Turbines	Y	12/29/03
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Organic Liquids Distribution	Y	12/29/03
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation	Y	12/29/03

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	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 Process Heaters	Y	6/27/04
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Reciprocating Internal Combustion Engines	Y	6/27/04
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters (that burn hazardous waste)	Y	11/12/05
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	
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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
40 CFR 63.640(c)	Applicability and Designation of Affected Source--Includes all emission points at Refinery	Y	
40 CFR 63.640(d)	Applicability and Designation of Affected Source--Exclusions	Y	
40 CFR 63.640(f)	Applicability and Designation of Affected Source	Y	
40 CFR 63.640(g)	Applicability and Designation of Affected Source--Exempt Processes	Y	
40 CFR 63.640(h)	Applicability and Designation of Affected Source--Compliance dates	Y	
40 CFR 63.640(i)	Applicability and Designation of Affected Source--New petroleum refining process unit requirements	Y	
40 CFR 63.640(j)	Applicability and Designation of Affected Source--Changes to existing petroleum refining process units	Y	
40 CFR 63.640(k)	Applicability and Designation of Affected Source--Additional requirements for new or changed sources	Y	
40 CFR 63.640(l)	Applicability and Designation of Affected Source--Additions of equipment (i.e. process vents, storage vessels, etc) in Group 1 sources not subject to 63.640(i) or (k).	Y	
40 CFR 63.640(m)	Applicability and Designation of Affected Source--Changes causing Group 2 emission points to become Group 1 points	Y	
40 CFR 63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
40 CFR 63.641	Definitions: Group 1 storage vessel, Group 2 storage vessel, Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.642	General Standards	Y	
40 CFR 63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
40 CFR 63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
40 CFR 63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
40 CFR 63.642(e)	Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	
40 CFR 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	
40 CFR 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	
40 CFR 63.647(a)	Wastewater Provisions	Y	
40 CFR 63.647(b)	Wastewater Provisions	Y	
40 CFR 63.647(c)	Wastewater Provisions	Y	
40 CFR 63.654(a)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
40 CFR 63.654(e)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
40 CFR 63.654(g)	Periodic Reporting and Recordkeeping Requirements	Y	
40 CFR 63.654(h)	Reporting and Recordkeeping Requirements--Other reports	Y	
40 CFR 63.654(i)	Reporting and Recordkeeping Requirements--Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	Hazardous Air Pollutants	Y	
BAAQMD Condition #20762			
Part 1	Verify true vapor pressure (8-5-117)	Y	
Part 2	Recordkeeping (8-5-117)	Y	

Table IV – Refinery
Generally Applicable Condition

Applicable Condition	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19466-4	The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]	N	
NESHAPS Title 40 Part	**National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic**	**Y**	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Condition

Applicable Condition	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63 Subpart UUU	**Reforming Units, and Sulfur Recovery Units**		
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	
61.1562(a)	Applicable to any new, reconstructed, or existing source at a petroleum refinery	Y	
61.1562(b)	Applicable affected sources include catalytic regenerators, catalytic reforming units, sulfur recovery units, and bypass lines serving affected units	Y	
61.1562(e)	An affected source is existing if it is not new or reconstructed.	Y	
61.1562(f)	Subpart UUU does not apply to:	Y	
61.1562(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	
61.1562(f)(5)	gaseous streams routed to a fuel gas system.	Y	
61.1563(b)	Comply with the emission limitations and work practice standards for existing sources by April 11, 2005.	Y	
61.1563(e)	Meet the notification requirements according to 63.1574 and 40 CFR 60 Part 63 Subpart A.		

Table IV - A1
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
S-1 (F-1301A, NAT. GAS)

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 Emission Limitation)	Y	
BAAQMD ·Regulation 9 Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)**		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	

IV. Source Specific Applicable Requirements

Table IV - A1
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
S-1 (F-1301A, NAT. GAS)

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-313	Sulfur Removal Operation at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	Sulfur Removal Operations at Petroleum Refinerines	N	
SIP Regulation 9 Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (05/20/1992)**		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	
BAAQMD Condition #125			
Part 1	Reasonable access to 24 hour sulfur production data shall be provided whenever the APCO or his designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Cleanup Unit and main stack. [Basis Banked POC credits]	Y	
Part 2	The Owner/Operator shall operate and maintain the best available H2S monitoring system on the Tail Gas Clean-up Unit exhaust stack. [Basis: 9-1-313.2, odors]	Y	
Part 3	Except during upset conditions, the motor operated valve (MOV-001), which allows Tail Gas from S-1 to flow to the incinerator (F-1302A; A-14), shall not be open when either of the sour gas feed valves (F002, F004) to source (S-1) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: 9-1-313.2, odors]	Y	
Part 4	Except during upset condtions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-64 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-313.2, odors]	Y	
BAAQMD Condtion #19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 0% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. 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 6-301]	Y	4/01/04
Part 8	The Permit Holder shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO3 and H2SO4). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit ServicesDivision no less than 45 days	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A1
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
S-1 (F-1301A, NAT. GAS)

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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 6-330]		

Table IV-A1
Source-Specific Applicable Requirements
S-1 SULFUR RECOVERY UNIT (F-1301A, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63 Subpart A	**MACT General Provisions**		
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional	Y	
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information already provided	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

Table IV-A1
Source-Specific Applicable Requirements
S-1 SULFUR RECOVERY UNIT (F-1301A, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAPS Title 40 Part 63 Subpart UUU	**National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.**	**Y**	
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 options for Sulfur Recovery Units not already subject to NSPS for SO2: 1) Meet NSPS requirements (Option 1); or 2) meet total reduced sulfur emission limits (Option 2).	Y	
63.1568(a)(1)(i)	Meet emission limitation of 300 ppmvd of reduced sulfur compounds calculated as SO2 at zero percent O2, for reduction control system without incineration (Option 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 Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O2 emissions. Calculate reduced sulfur emissions as SO2, dry basis, at 0% O2 (Option 1).	Y	
63.1568(b)(2)	Performance Test: measure concentration of reduced sulfur for a reduction control system without incineration (Option 1), by collecting monitoring data every 15 minutes for 24 consecutive hours.	Y	
63.1568(b)(5)	Demonstrate Initial Compliance with the 300 ppmvd reduced sulfur limit calculated as SO2 at zero percent O2 by monitoring the hourly average total reduced sulfur emissions over a 24-hour period (Option 1).	Y	
63.1568(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	

IV. Source Specific Applicable Requirements

Table IV-A1
Source-Specific Applicable Requirements
S-1 SULFUR RECOVERY UNIT (F-1301A, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(b)(7)	Submit Notice of Initial Compliance Status cotaiing the results of the initial compliance demonstration.	Y	
63.1568(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: maintain 300 ppmvd reduced sulfur emissions calculated as SO2 at zero percent O2 (Option 1) and collect hourly average TRS monitoring data.	Y	
63.1568(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 (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 (Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Option 1).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) 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.	Y	

IV. Source Specific Applicable Requirements

Table IV-A1
Source-Specific Applicable Requirements
S-1 SULFUR RECOVERY UNIT (F-1301A, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment.	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	

IV. Source Specific Applicable Requirements

Table IV-A1
Source-Specific Applicable Requirements
S-1 SULFUR RECOVERY UNIT (F-1301A, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission 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(c)	Automated data compression system (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)(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.	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	

IV. Source Specific Applicable Requirements

Table IV-A1
Source-Specific Applicable Requirements
S-1 SULFUR RECOVERY UNIT (F-1301A, NAT. GAS)

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)	Deviations using CEMS or COMS	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test 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	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring 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	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 Emission Limitation)	Y	
BAAQMD · Regulation 9 Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)**		
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)	N	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
SIP Regulation 9 Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (05/20/1992)**		
9-1-313	Sulfur Removal Operation at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	
BAAQMD Condition # 126			
Part 1	Reasonable access to 24 hour sulfur production data shall be provided whenever the APCO or his designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: 9-1-313.2]	Y	
Part 2	The Owner/Operator shall operate and maintain the best available H2S monitoring system on the Tail Gas Clean-up Unit exhaust stack. [Basis: 9-1-313.2, odors]	Y	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Except during upset conditions, the motor operated valve (MOV-003), which allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15), shall not be open when either of the sour gas feed valves (F052, F054) to source (S-2) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: 9-1-313.2]	Y	
Part 4	Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-64 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur.	Y	
BAAQMD Conditon #19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. 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 6-301]	Y	4/01/04
Part 8	The Permit Holder shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO3 and H2SO4). 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 6-330]	Y	4/01/04
40 CFR Part 63 Subpart A	**MACT General Provisions**		
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional	Y	
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information already provided	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAPS Title 40 Part 63 Subpart UUU	**National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.**	**Y**	
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 options for Sulfur Recovery Units not already subject to NSPS for SO2: 1) Meet NSPS requirements (Option 1); or 2) meet total reduced sulfur emission limits (Option 2).	Y	
63.1568(a)(1)(i)	Meet emission limitation of 300 ppmvd of reduced sulfur compounds calculated as SO2 at zero percent O2, for reduction control system without incineration (Option 1).	Y	
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O2 emissions. Calculate reduced sulfur emissions as SO2, dry basis, at 0% O2 (Option 1).	Y	
63.1568(b)(2)	Performance Test: measure concentration of reduced sulfur for a reduction control system without incineration (Option 1), by collecting monitoring data every 15 minutes for 24 consecutive hours.	Y	
63.1568(b)(5)	Demonstrate Initial Compliance with the 300 ppmvd reduced sulfur limit calculated as SO2 at zero percent O2 by monitoring the hourly average total reduced sulfur emissions over a 24-hour period (Option 1).	Y	
63.1568(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	
63.1568(b)(7)	Submit Notice of Initial Compliance Status cotaiing the results of the initial compliance demonstration.	Y	
63.1568(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: maintain 300 ppmvd reduced sulfur emissions calculated as SO2 at zero percent O2 (Option 1) and collect hourly average TRS monitoring data.	Y	
63.1568(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 (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	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1569(b)(1)	Conduct performance test for automated bypass line (Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Option 1).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) 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.	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). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment.	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	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(a)	Monitoring installation, operation, and maintenance requirements for continuous emission 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(c)	Automated data compression system (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)(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	

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
S-2 SULFUR RECOVERY UNIT (F-1301B, NAT. GAS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(e)	Deviations using CEMS or COMS	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test 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	
63.1576(d)	Records required by Tables 34 and 35 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring 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	

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2 Rule 9 ·	**Permits, Interchangeable Emission Reduction Credits (04/07/1999)**		
2-9-301.1.1	Bankable Interchangeable Emission Reduction Credits -- General	N	
2-9-301.1.2	Bankable Interchangeable Emission Reduction Credits -- General	N	
2-9-301.1.3	Bankable Interchangeable Emission Reduction Credits -- General	N	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-310	Particulate Weight Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10 ·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-303.1	Interim Emission Limit for CO Boilers (Federal Requirements)	Y	
9-10-304	Emission Limit for CO Boilers, NOx	N	
9-10-304.1	Emission Limit for CO Boilers, NOx	N	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 – Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD Condtion #11030			
Part 1	The start-up of the CO Furnaces (S-3 and S-4) shall not exceed 72 hours. [Basis: Cumulative Increase]	Y	
Part 2	The shutdown of the CO Furnaces (S-3 and S-4) shall not exceed 120 hours. [Basis: Cumulative Increase]	Y	
Part 3	When the Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 150 ppm, dry at 3% oxygen, based on an operating day average. [Basis: BARCT, Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	To demonstrate compliance with Conditions #1 and 2, the start-up time and shutdown time of S-3 and S-4 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
Part 6	Effective from May 31, 1995, the NOx emissions from the CO Furnaces (S-3 and S-4) shall be abated at all times by the A-52 and/or A-53 Thermal DeNOx Systems. [Basis: Cumulative Increase]	Y	
Part 7	The Owner/Operator shall limit the total consumption of refinery fuel gas plus CO at each source to no more than thefollowing: S-3 CO Furnace: 46.3 Million therms per year (Basis: Cumulative Increase) S-4 CO Furnace: 22.7 Million therms per year (Basis: Cumulative Increase)	N	
BAAQMD Condtion #19466			
Part 5	The particulate emissions from the S-3 and S-4 CO Boilers shall be abated by at least four of the five A-1 through A-5 Electrostatic Precipitators and exhausted through the main stack (P-1). [Basis: Regulation 6-301 and Regulation 6-304].	Y	
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41 [Basis: Monitoring]	Y	4/01/04
BAAQMD Condtion #22156			
Part 1	Continuous Opacity monitoring of ESP for reasonable assurance of compliance with Regulations 6-310. (basis: Regulation 2-6-503)	Y	
Part 3	Operate A-1, A-2, A-3, A-4 and A-5 that abate CO boilers S-3 and S-4 with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-310. (basis: Regulation 2-6-503)	Y	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-107	Combination of Emissions		
1-520	Continuous Emission Monitoring	Y	
1-520.5	SO2 and Opacity Monitors at Catalyst Regenerators of FCC Units	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
1-604	Opacity Measurements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation per BAAQMD Regulation 1-520.5	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	Y	
6-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)**		

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 1			
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO2	Y	
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Claiming Kilns	Y	
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	
9-1-605	Emission Monitoring	Y	
BAAQMD Condition #19466			
Part 6	The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). 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 6-310]	Y	4/01/04
Part 9	The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). The Owner/Operator shall submit the test results 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 6-311]	Y	4/01/04
Part 15	The owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner	Y	4/01/04
40 CFR Part 63 Subpart A	**MACT General Provisions**		
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional	Y	
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information already provided	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAPS Title 40 Part 63 Subpart UUU	**National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.**	**Y**	
63.1564	Requirements for HAP Emissions from Catalytic Cracking Units	Y	
63.1564(a)	Emission Limitations and Work Practice Standards	Y	
63.1564(a)(1)	Emission limitation options for Catalytic Cracking Units not already subject to NSPS for PM: 1) Meet NSPS requirements (Option 1); meet PM emission limit (Option 2); meet Nickel lb/hr emission limit (Option 3); or meet Nickel coke burn-off limit (Option 4).	Y	
63.1564(a)(1)(i)	Meet NSPS requirements (Option 2)	Y	
63.1564(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1564(a)(4)	Emission limitation and operating limits for metal HAP emissions do not apply during periods of planned maintenance preapproved by applicable permitting authority.	Y	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1564(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1564(b)(1)	Install Continuous Monitoring System to measure and record the opacity of emissions from each catalyst regenerator vent.	Y	
63.1564(b)(2)	Performance Test: measure PM emissions for a unit without a wet scrubber (Option 2). Calculate coke burn-off rate and PM emission rate.	Y	
63.1564(b)(3)	Establish Site Specific Operating Limits	Y	
63.1564(b)(4)(ii)	Compute PM emission rate (1.0 lb/1,000 lbs) of coke burn-off using Equations 1 and 2 of 63.1564; Compute site-specific opacity operating limit (for units with continuous opacity monitoring systems) using Equation 4 of 63.1564.	Y	
63.1564(b)(5)	Demonstrate Initial Compliance with the 1.0 lb PM/1,000 lbs coke burn-off limit (Option 2)	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)	Demonstration Continuous Compliance with Emission Limitation: 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. For continuous parametric monitoring of electrostatic precipitator, collect hourly and daily average gas flow rate monitoring data and maintain daily average flow rate at or below limit established during performance test. For continuous parametric monitoring of electrostatic precipitator, collect hourly and daily average voltage and secondary current (or total power input) monitoring data and maintain daily average voltage and secondary current at or above the limit established during performance test.	Y	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1564(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan.	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 options for Catalytic Cracking Units not already subject to NSPS for CO: 1) Meet NSPS requirements (Option 1); or 2) meet CO emission limit (Option 2).	Y	
63.1565(a)(1)(i)	Meet CO emission limit (Option 1).	Y	
63.1565(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan.	Y	
63.1565(a)(4)	Emission limitation and operating limits for organic HAP emissions do not apply during periods of planned maintenance preapproved by applicable permitting authority.	Y	
63.1565(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1565(b)(1)	Install Continuous Monitoring System	Y	
63.1565(b)(1)(ii)	For catalytic cracking units not already subject to the CO NSPS: continuous monitoring emission monitoring or continuous parameter monitoring is not required if emissions are vented to a boiler or process heater with a design heat input capacity of at least 44 MW.	Y	
63.1565(b)(1)(iii)	For catalytic cracking units not already subject to the CO NSPS: continuous monitoring emission monitoring or continuous parameter monitoring is not required if emissions are vented to a boiler or process heater in which all emissions are introduced into the flame zone.	Y	
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)(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	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (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 (Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Option 1).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) 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.	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(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). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment.	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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/CO2, and O2 in exhaust flow	Y	
63.1573(c)	Automated data compression system (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	

IV. Source Specific Applicable Requirements

Table IV - A4
Source-Specific Applicable Requirements
Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-5 (R-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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.	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(e)	Where CEM or COMS is used	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test 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	
63.1576(d)	Records required by Tables 6, 7, 13, and 14 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring 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	

IV. Source Specific Applicable Requirements

IV. Source Specific Applicable Requirements

Table IV - A5
Source-Specific Applicable Requirements
Fluid Coker
S-6 (R-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.6	Continuous Emission Monitoring	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
1-604	Opacity Measurements	N	
SIP · Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation per BAAQMD Regulation 1-520.5	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	Y	
6-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	

IV. Source Specific Applicable Requirements

Table IV - A5
Source-Specific Applicable Requirements
Fluid Coker
S-6 (R-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)**		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO2	Y	
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
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	
9-1-605	Emission Monitoring	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(1)	Applicability of Miscellaneous Process Vents	Y	
40 CFR 63.643(a)	Miscellaneous Process Vent Provisions	Y	
40 CFR 63.643(a)(2)	Control device requirements	Y	
40 CFR 63.643(b)	Boiler or process heater requirements	Y	
40 CFR 63.644(a)	Monitoring Provisions for Miscellaneous Process Vents	Y	
40 CFR 63.644(a)(3)	Boiler or process heater > 44 MW	Y	
40 CFR 63.645(d)	Testing is not required.	Y	
40 CFR 63.645(d)(1)	Test methods and procedures for miscellaneous process vents	Y	
40 CFR 63.645(d)(2)	Test methods and procedures for miscellaneous process vents	Y	
40 CFR 63.645(i)	Test Methods and Procedures for Miscellaneous Process--Compliance determination for visible emission	Y	

IV. Source Specific Applicable Requirements

Table IV - A5
Source-Specific Applicable Requirements
Fluid Coker
S-6 (R-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Conditon #19466			
Part 6	The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). 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 6-310]	Y	4/01/04
Part 9	The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). The Owner/Operator shall submit the test results 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 6-311]	Y	4/01/04
Part 15	The Owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A6.1
Source-Specific Applicable Requirements
Process Furnaces
S-7, S-20 and S-34 (F-103, F-104, F-2905)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	

IV. Source Specific Applicable Requirements

Table IV - A6.1
Source-Specific Applicable Requirements
Process Furnaces
S-7, S-20 and S-34 (F-103, F-104, F-2905)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	

IV. Source Specific Applicable Requirements

Table IV - A6.1
Source-Specific Applicable Requirements
Process Furnaces
S-7, S-20 and S-34 (F-103, F-104, F-2905)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condtion #19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
BAAQMD Condtion #21322			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 3	NOx Box Overview	N	1/1/05
Part 4	NOx Box Establishment	N	1/1/05
Part 5	NOx Box Limits	N	1/1/05
Part 6	NOx Box Deviations	N	1/1/05
Part 7	Periodic Source Testing for Sources without a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A6.2
Source-Specific Applicable Requirements
Process Furnaces
S-24, S-26 and S-35 (F-601, F-801, F-2906)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	

IV. Source Specific Applicable Requirements

Table IV - A6.2
Source-Specific Applicable Requirements
Process Furnaces
S-24, S-26 and S-35 (F-601, F-801, F-2906)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	

IV. Source Specific Applicable Requirements

Table IV - A6.2
Source-Specific Applicable Requirements
Process Furnaces
S-24, S-26 and S-35 (F-601, F-801, F-2906)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation (applies to S-24 and S-26 only)	N	1/1/05
Part 3	NOx Box Overview	N	1/1/05
Part 4	NOx Box Establishment	N	1/1/05
Part 5	NOx Box Limits	N	1/1/05
Part 6	NOx Box Deviations	N	1/1/05
Part 7	Periodic Source Testing for Sources without a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation (applies to S-24 and S-26 only)	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A6.3
Source-Specific Applicable Requirements
Process Furnaces
S-13, S-50 (F-702, F-901)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10 ·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-112	Limited Exemption, Low Fuel Usage	N	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process heaters (01/05/1994)**		
9-10-112	Limited Exemption, Low Fuel Usage	Y	

IV. Source Specific Applicable Requirements

Table IV - A8.1
Source-Specific Applicable Requirements
Acid Gas and South Flares
S-16, S-18 (ST-2101AG, ST-2101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 12-11	**Flare Monitoring at Petroleum Refineries (06/04/03)**		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	6/4/04
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.1	Vent Gas Composition Monitoring	N	
12-11-502.2	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	
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	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
40 CFR 60.100(b)	Subpart J not applicable: Constructed/modified before 6/11/1973	Y	
BAAQMD Condition #20806	**Permit Conditions for S-16, S-18, and S-19**		
Part 3	For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas	Y	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A8.1
Source-Specific Applicable Requirements
Acid Gas and South Flares
S-16, S-18 (ST-2101AG, ST-2101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the Owner/Operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (Basis: Regulation 2-6-409.2)		
Part 4	The Owner/Operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event. a. If the Owner/Operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection. b. If the Owner/Operator cannot determine that there are no visible emissions using video monitoring, the Owner/Operator shall conduct a visual inspection outdoors using either: i. EPA Reference Method 9; or ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes. c. If a visible emission is observed, the Owner/Operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter. d. The Owner/Operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day.(Basis: Regulation 6-301, 2-1-403)	Y	1/1/05
Part 5	The Owner/Oerator shall comply with one of the following requirements if visual inspection is used: a. If EPA Method 9 is used, the Owner/Operator shall comply with Regulation 6-301 when operating the flare. b. If the procedure of 4.b.ii is used, the Owner/Operator shall not operate a flare that has visible emissions for three consecutive minutes. (Basis: Regulation 2-6-403)	Y	1/1/05
Part 6	The Owner/Operator shall keep records of all flaring events, as defined in Part 3. The Owner/Operator shall include in the records the name of the person		

IV. Source Specific Applicable Requirements

Table IV - A8.1
Source-Specific Applicable Requirements
Acid Gas and South Flares
S-16, S-18 (ST-2101AG, ST-2101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (Basis: Regulation 2-6-501; 2-6-409.2)		

IV. Source Specific Applicable Requirements

Table IV - A8.2
Source-Specific Applicable Requirements
Butane Flare
S-17 (ST-1701)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 12-11	**Flare Monitoring at Petroleum Refineries (06/04/03)**		
12-11-110	Exemption, Organic Liquid Storage and Distribution	N	
SPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
40 CFR 60.100(b)	Subpart J not Applicable: Constructed/modified before 6/11/1973	Y	

IV. Source Specific Applicable Requirements

Table IV - A9
Source-Specific Applicable Requirements
North Flare
S-19 (ST-2103)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP · Regulation 1	**G eneral Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD · Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
BAAQMD Regulation 12-	**Flare Monitoring at Petroleum Refineries (06/04/03)**		

IV. Source Specific Applicable Requirements

Table IV - A9
Source-Specific Applicable Requirements
North Flare
S-19 (ST-2103)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
11			
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	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.1	Vent Gas Composition Monitoring	N	
12-11-502.2	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	
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	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
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 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions.	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40	**NSPS 40 Part 60 Appendix B (01/12/2004)**		

IV. Source Specific Applicable Requirements

Table IV - A9
Source-Specific Applicable Requirements
North Flare
S-19 (ST-2103)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 60 Appendix B			
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition #20806	**Permit Conditions for S-16, S-18, and S-19**		
Part 3	For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the Owner/Operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (Basis: Regulation 2-6-409.2)	Y	1/1/05
Part 4	The Owner/Operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event. a. If the Owner/Operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection. b. If the Owner/Operator cannot determine that there are no visible emissions using video monitoring, the Owner/Operator shall conduct a visual inspection outdoors using either: i. EPA Reference Method 9; or ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from	Y	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A9
Source-Specific Applicable Requirements
North Flare
S-19 (ST-2103)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	the emission source, where the sun is not directly in the observer's eyes. c. If a visible emission is observed, the Owner/Operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter. d. The Owner/Operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (Basis: Regulation 6-301, 2-1-403)		
Part 5	The Owner/Operator shall comply with one of the following requirements if visual inspection is used: a. If EPA Method 9 is used, the Owner/Operator shall comply with Regulation 6-301 when operating the flare. b. If the procedure of 4.b.ii is used, the Owner/Operator shall not operate a flare that has visible emissions for three consecutive minutes. (Basis: Regulation 2-6-403)	Y	1/1/05
Part 6	The Owner/Operator shall keep records of all flaring events, as defined in Part 3. The Owner/Operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (Basis: Regulation 2-6-501; 2-6-409.2)	Y	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD · Regulation 10 Subpart J·	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
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 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 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	Y	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	relief valve leaks or other emergency malfunctions		
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-501	Monitoring and Record Keeping	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 10574			
Part 13	The refinery fuel gas combusted in any CFP equipment shall not exceed any of the following: (a) 100 ppmv H2S, averaged over a 24-hour calendar day and (b) 160 ppm H2S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS]	Y	
Part 14	The refinery fuel gas combusted in any CFP equipment shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y	
Part 15	The Permit Holder shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas prior to combustion inthe CFP combustion sources (S-21, S-22 and S-220).[Basis: Monitoring and Records].	Y	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 16	The Permit Holder shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, Permit Holder shall report for S-220, S-21 and S-22: (a) the daily fuel consumption, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y	
Part 17	All new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]	Y	
Part 18	Total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP shall not exceed the following annual limits: **Pollutant** — **Ton/year)** NOx — 17.11 (S-220 only) CO — 134.904 SO2 — 59.358 PM10 — 26.981 POC — 15.514 (Note: NOx emission increases from new S-220 Hot Oil System only. The two modified combustion sources (S-21 and S-22) will not increase NOx emissions from the baseline total of 195.3 and 191.8 tons per year, respectively.) [Basis: BACT, Cumulative Increase, New Source Review trigger, Offsets, SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888].	Y	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 20	The Permit Holder shall calculate and totalize NOx, CO, POC, S02 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be: **Pollutant** — **Daily Emission Limit** CO: 0.0200 lb/MMBtu POC: 0.0023 lb/MMBtu SO2: 0.0069 lb/MMBtu PM10: 0.0040 lb/MMBtu NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance The results shall be retained on site for a period of at least five years and made available to District staff upon request. [Basis: BACT, Cumulative Increase]	Y	
Part 21	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S- 21, S-22 and S-220) or the three abatement devices (A- 43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1 or 20% opacity. [Basis: BAAQMD 6-301]	Y	
Part 22	For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24-hour period does not apply during the initial starup of the Units. [Basis: Cumulative Increase]	Y	
Part 31	For the S-21 and S-22 furnaces, the emissions of nitrogen oxides based on CEM data shall not exceed 60 ppmv, dry, corrected to 3% oxygen, (0.0708 lb/MMBtu) averaged over any consecutive 24-hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the emissions of nitrogen oxides shall not exceed 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]	Y	
Part 32	For the S-21 and S-22 furnaces, the emissions of CO shall not exceed 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]	Y	
Part 33	Sources S-21 and S-22 shall be equipped with low NOx burners. The low NOx burners systems shall be operated in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]	Y	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 37	The total combined heat input for S-21 and S-22 shall not exceed 106 million therms (10.6 trillion Btus) any 365 consecutive day period. [Basis: Cumulative Increase, Offsets]	Y	
Part 38	The maximum firing rate of the S-21 Hydrogen Reforming Furnace shall not exceed 614 million Btu per hour for all fuels combusted at the source. [Basis: Cumulative Increase, Toxics]	Y	
Part 39	The maximum firing rate of the S-22 Hydrogen Reforming Furnace shall not exceed 614 million Btu per hour for all fuels combusted at the source. [Basis: Cumulative Increase, Toxics]	Y	
Part F	Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. For condition number 15, the CEM for the Refinery fuel gas shall include a data-logging device that averages the CEM concentration readings over the 24-hour time period (calendar day). [Basis: BACT]	Y	
Part G	The Permit Holder 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 five 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 the following: Fuel usage type and amount for: S-220 Hot Oil System S-21 Hydrogen Reformer Furnace S-22 Hydrogen Reformer Furnace CEM data and CEM indicated excesses; Fuel gas H2S concentration (24-hour Average); Fuel gas total reduced sulfur Concentration Average) Fuel gas usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual Firing Rate (Btu/month) Miscellaneous [Basis BACT]	Y	
Part H	Any process vessel depressurization gas shall be vented to a control device with overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	staff upon request. [Basis: Regulation 9-10-305]		
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at thefollowing sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	4/01/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 8	Periodic Source Testing for Sources with a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A11
Source-Specific Applicable Requirements
Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	

IV. Source Specific Applicable Requirements

Table IV - A11
Source-Specific Applicable Requirements
Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD · Regulation 10 Subpart J ·	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		

IV. Source Specific Applicable Requirements

Table IV - A11
Source-Specific Applicable Requirements
Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

Table IV - A11
Source-Specific Applicable Requirements
Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 14318			
Part 1	Emissions of NMHC from S-23 (furnace F-401) shall not exceed 10 lb/day. [Basis: BACT]	Y	
Part 2	Emission of NOx shall not exceed 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - A11
Source-Specific Applicable Requirements
Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	NOx and oxygen shall be continuously monitored (per Manual of Procedures). [Basis: Cumulative Increase]	Y	
Part 4	Maximum firing of furnace shall not exceed 200 MMBtu/hr heat input for any one-hour period and 185 MMBtu/hr average for a 24-hour period based on the gross heating value of the fuel gas. This 24-hour period shall be midnight to midnight. [Basis: Cumulative Increase]	Y	
Part 5	As per Regulation 10-14, hydrogen sulfide shall be continuously monitored and shall not exceed 160 ppm (dry). [Basis: Cumulative Increase, BAAQMD 10-14]	Y	
Part 6	All data pertaining to (1), (2), (3), (4), above shall be readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verificationthrough Records]	Y	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	4/01/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 8	Periodic Source Testing for Sources with a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A12
Source-Specific Applicable Requirements
Process Furnaces
S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	

IV. Source Specific Applicable Requirements

Table IV - A12
Source-Specific Applicable Requirements
Process Furnaces
S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	

IV. Source Specific Applicable Requirements

Table IV - A12
Source-Specific Applicable Requirements
Process Furnaces
S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A12
Source-Specific Applicable Requirements
Process Furnaces
S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 8	Periodic Source Testing for Sources with a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A13.1
Source-Specific Applicable Requirements
Waste Heat Boilers
S-36, S-48, S-56 (SG-701, SG-1031, SG-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-107	Combination of Emissions	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD Condition # 19466			
Part 12	The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - A13.2
Source-Specific Applicable Requirements
Turbines
S-43, S-44, S-46 (GT-401, GT-701, GT-1031)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD · Regulation 9 Rule 9	**Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (09/21/1994)**		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.1	NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW	Y	
9-9-601	Determination of Emissions	Y	
9-9-602	Determination of Stack Gas Oxygen	Y	
BAAQMD Condition # 19466			
Part 11	The Permit Holder shall conduct a semi-annual District-approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NOx not to exceed 55 ppmv, dry, at 15% O2, fired on refinery fuel 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]	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A14.1
Source-Specific Applicable Requirements
Waste Heat Boiler
S-37 (SG-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD · Regulation 2 Rule 4	**Permits, Emissions Banking (05/17/2000)**		
2-4-301	Bankable Reductions	Y	
2-4-301.1	Bankable Reductions	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	

IV. Source Specific Applicable Requirements

Table IV - A14.1
Source-Specific Applicable Requirements
Waste Heat Boiler
S-37 (SG-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 16386	**Permit to Operate S-37 (SG-702) Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine**		
Part 1	Except during startup and shutdown, the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 4	The emissions from the S-37 Steam Generator Gas Turbine shall be abated by the A-51 Selective Catalyst Reduction System at all times in which it is in operation, except for the following: <Permanency of Contemporaneous Banking Credit, Offsets> A. During periods of startups and shutdowns. B. Infrequent periods not to exceed 45 days in any consecutive three year period.	Y	
Part 5	Startups and shutdowns shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the units. <Permanency of Contemporaneous Banking Credit, offsets>	Y	
Part 6	Valero Refining Company shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx) emissions from this combined system consisting of S-45 and S-37. <Regulation 9, Rule 9 enforceability of contemporaneous banking credit, Offsets>	Y	
Part 7	The total emissions of nitrogen oxides (NOx) emissions for S-37 Steam Generator shall not exceed 23.851 tons per calendar year. <Permanency of Actual Emissions Reduction for S-237>	Y	
Part 8	To demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log for S-37. These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. a. Daily usage of refinery fuel gas at S-37, in cubic feet b. Daily usage of refinery fuel gas at S-45, in cubic feet	Y	

IV. Source Specific Applicable Requirements

Table IV - A14.1
Source-Specific Applicable Requirements
Waste Heat Boiler
S-37 (SG-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	c. Daily HHV of refinery fuel gas d. Daily mass emissions from the combined exhaust, as measured by the CEM e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data f. Computation of monthly and annual mass emissions from S-37 g. Days of startup, shutdown and S-37 singular operations.<Banked POC credit requirements>		

IV. Source Specific Applicable Requirements

Table IV - A14.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD · Regulation 2 Rule 4·	**Permits, Emissions Banking (05/17/2000)**		
2-4-301	Bankable Reductions	Y	
2-4-301.1	Bankable Reductions	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD · Regulation 9 Rule 9·	**Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (09/21/1994)**		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	Y	

IV. Source Specific Applicable Requirements

Table IV - A14.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	between May 1 and October 31.		
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	Y	
9-9-401	Certification, Efficiency	Y	
9-9-501	Monitoring and Recordkeeping Requirements	Y	
9-9-601	Determination of Emissions	Y	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-603	Continuous Emission Monitoring	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD Condition # 16386	**Permit to Operate S-37 (SG-702) Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine**		
Part 1	Except during startup and shutdown, the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 3	Except during startup and shutdown, the emissions from the S-45 Gas Turbine shall be abated by the A-51 Selective Catalyst Reduction System at all times in which it is in operation. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 5	Startups and shutdowns shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the units. <Permanency of Contemporaneous Banking Credit, offsets>	Y	
Part 6	Valero Refining Company shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx) emissions from this combined system consisting of S-45 and S-37. <Regulation 9, Rule 9 enforceability of contemporaneous banking credit, Offsets>	Y	

IV. Source Specific Applicable Requirements

Table IV - A14.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	To demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log for S-37 and S-45. . These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. a. Daily usage of refinery fuel gas at S-37, in cubic feet b. Daily usage of refinery fuel gas at S-45, in cubic feet c. Daily HHV of refinery fuel gas d. Daily mass emissions from the combined exhaust, as measured by the CEM e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data f. Computation of monthly and annual mass emissions from S-37 g. Days of startup, shutdown and S-37 singular operations.<Banked POC credit requirements>	Y	

IV. Source Specific Applicable Requirements

Table IV - A15
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	

IV. Source Specific Applicable Requirements

Table IV - A15
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD · Regulation 10 Subpart J·	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		

IV. Source Specific Applicable Requirements

Table IV - A15
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators Devices at Refineries and Fuel Gas Combustion Devices of Refineries..	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appnedix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	

IV. Source Specific Applicable Requirements

Table IV - A15
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 9296			
Part D1	For the S-40 Steam Boiler: The steam boiler (S-40) shall be equipped with Low NOx burners and flue gas recirculation. [BAAQMD 9-10, Offsets, Cumulative Increase]	Y	
Part D2	For the S-40 Steam Boiler: The NOx concentration shall not exceed 30 ppmv, dry, corrected to 3 oxygen, as averaged over any 12-month period. [Basis: Offsets]	Y	
Part D3	For the S-40 Steam Boiler: The CO concentration shall not exceed 400 ppmv, dry, corrected to 3 % oxygen. [BAAQMD 9-10, Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - A15
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part D4	The scrubber system upstream of S-40 Boiler shall have an annualized daily averaged (calendar year) total reduced sulfur concentration not to exceed 51 ppm, by volume. [Offsets]	Y	
Part D6	For the S-40 Steam Boiler: Permit Holder shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in Condition number 4. These records shall be retained for a period of at least 5 years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Banked POC credits]	Y	
Part D7	The maximum firing rate of the S-40 Utility package Boiler shall not exceed 218 million Btu per hour. (Cumulative Increase, Toxics)	Y	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	4/1/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 8	Periodic Source Testing for Sources with a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A15
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A16
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	

IV. Source Specific Applicable Requirements

Table IV - A16
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	Various
9-10-501.1	Initial Demonstration of Compliance	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD ·Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	

IV. Source Specific Applicable Requirements

Table IV - A16
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	

IV. Source Specific Applicable Requirements

Table IV - A16
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A16
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	4/01/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 8	Periodic Source Testing for Sources with a NOx CEM	N	1/1/05
Part 9	CO Exceedance and CEM Installation	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A17
Source-Specific Applicable Requirements
Process Furnace
S-42 (F-1060)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process heaters (07/17/2002)**		
9-10-112	Limited Exemption, Low Fuel Usage (< 90,000 Therms/year)	N	
9-10-306	Small Unit Requirements	Y	
9-10-306.2	Small Unit Requirements	Y	
9-10-402	Control Plan Submittal, Small Units	N	
9-10-502.2	Monitoring	N	
9-10-504.2	Records	N	
9-10-505	Reporting Requirements	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-605	Tune-up Procedures	Y	
SIP Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-112	Limited Exemption, Low Fuel Usage (< 90,000 Therms/year)	Y	
9-10-402	Control Plan Submittal, Small Units	Y	
9-10-502.2	Monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – A18
Source-Specific Applicable Requirements
Process Furnace
S-173 (F-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirement	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirement	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD ·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, &**		

IV. Source Specific Applicable Requirements

Table IV – A18
Source-Specific Applicable Requirements
Process Furnace
S-173 (F-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 9 Rule 10	**Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	2
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and –305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	Y	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
BAAQMD Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance for Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989**		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices of Refineries.	Y	

IV. Source Specific Applicable Requirements

Table IV – A18
Source-Specific Applicable Requirements
Process Furnace
S-173 (F-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		

IV. Source Specific Applicable Requirements

Table IV – A18
Source-Specific Applicable Requirements
Process Furnace
S-173 (F-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 254			
Part 1	The NOx emission shall not exceed 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]	Y	
Part 2	Furnace F-1060 shall not operate for more than 30 days per year. [Basis: Cumulative Increase]	Y	
Part 3	A District approved Source Test shall be conducted within 30 days after	Y	

IV. Source Specific Applicable Requirements

Table IV – A18
Source-Specific Applicable Requirements
Process Furnace
S-173 (F-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	start-up and every six months thereafter to determine compliance with condition #1. [Basis: Cumulative Increase]		
Part 4	Any "banking" application submitted relative to this permit shall, at a minimum, include an analysis of the entire coker, specifically emissions associated with "running normal rates for longer periods." [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05
Part 3	NOx Box Overview	N	1/1/05
Part 4	NOx Box Establishment	N	1/1/05
Part 5	NOx Box Limits	N	1/1/05
Part 6	NOx Box Deviations	N	1/1/05
Part 7	Periodic Source Testing for Sources without a NOx CEM	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

IV. Source Specific Applicable Requirements

Table IV - A19
Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provision and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	

IV. Source Specific Applicable Requirements

Table IV - A19
Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 3	**Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)**		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10·	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV - A19
Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 10 Subpart Db	**Federal NSPS, Industrial-Commercial-Institutional Steam Generating Units (02/16/2000)**		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
BAAQMD · Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart Db	**NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (12/16/1987)**		
40 CFR 60.40b(a)	Applicable to Steam Generating Units	Y	
40 CFR 60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
40 CFR 60.44b(a)	NOx Standard	Y	
40 CFR 60.44b(a)(1)(i)	NOx Standard for Natural Gas and Distillate Oil, Low Heat Release Rate	Y	
40 CFR 60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion, including startup provisions	Y	
40 CFR 60.44b(h)	NOx standard applicable at all times	Y	
40 CFR 60.44b(i)	30-day rolling average	Y	
40 CFR 60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(c)	Compliance determined per 60.46b(e)	Y	
40 CFR 60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(e)(1)	Initial compliance test procedures	Y	
40 CFR 60.46b(e)(3)	30 day rolling average	Y	

IV. Source Specific Applicable Requirements

Table IV - A19
Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1)	Y	
40 CFR 60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO2 Discharge.	Y	
40 CFR 60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
40 CFR 60.48b(d)	Continuous NOx monitors measure 1-hour average NO2 emission rates	Y	
40 CFR 60.48b(e)	Complies with 60.13	Y	
40 CFR 60.48b(e)(2)	Span Values for NOx.	Y	
40 CFR 60.48b(e)(3)	Span Values for NOx rounded to nearest 500ppm.	Y	
40 CFR 60.48b(f)	Standby Monitoring Systems	Y	
40 CFR 60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44	Y	
40 CFR 60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
40 CFR 60.49b(g)	Recordkeeping – NOx data	Y	
40 CFR 60.49b(g)(1)	Calendar Date	Y	
40 CFR 60.49b(g)(10)	CEMS daily drift test results	Y	
40 CFR 60.49b(g)(2)	Average Hourly NOx	Y	
40 CFR 60.49b(g)(3)	30-day Average NOx	Y	
40 CFR 60.49b(g)(4)	Identification of 30-day Average NOx	Y	
40 CFR 60.49b(g)(5)	Insufficient Data	Y	
40 CFR 60.49b(g)(6)	Excluding Data	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.49b(g)(7)	Identification of "F" factor	Y	
40 CFR 60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
40 CFR 60.49b(g)(9)	Modifications of CMS	Y	
40 CFR 60.49b(h)	Excess emission reports	Y	
40 CFR 60.49b(h)(2)	Subject to 60.44b NOx standard	Y	
40 CFR 60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	
40 CFR 60.49b(o)	Records retained for 2 years	Y	
40 CFR 60.49b(v)	Electronic Quarterly Reports	Y	
40 CFR 60.49b(w)	Semi-Annual Reports	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	

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Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 2	NOx Continuous Emission Monitoring Systems	Y	
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Regulation 2, Rule 9	**Interchangeable Emission Reduction Credits (4/7/99)**		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations - General Requirements	N	
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition # 10574			
Part 4	All hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]	Y	
Part 5	Except as required by Condition number 4, all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic- packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]	Y	
Part 7	All flanges installed in the piping systems as a result of the CFP shall be equipped with graphite- based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible.[Basis: BACT, Offsets, Cumulative Increase, Toxics].	Y	

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Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	The pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service shall be vented to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1014 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: Cumulative Increase]	Y	
Part 13	The refinery fuel gas combusted in any CFP equipment shall not exceed any of the following: (a) 100 ppmv H2S, averaged over a 24-hour calendar day and (b) 160 ppm H2S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS]	Y	
Part 14	The refinery fuel gas combusted in any CFP equipment shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT>	Y	
Part 15	Permit Holder shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21, S-22 and S-220). [Basis: Monitoring and Records].	Y	
Part 16	Permit Holder shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, Permit Holder shall report for S-220, S-21 and S-22: (a) the daily fuel consumption, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237, Boiler BACT]	Y	

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Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 17	All new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]	Y	
Part 18	Total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP shall not exceed the following annual limits: **Pollutant** **Tons/yeat** NOx 17.11 (S-220 only) CO 134.904 SO2 59.358 PM10 26.981 POC 15.514 (Note: NOx emission increases from new S-220 Hot Oil System only. The two modified combustion sources (S-21 and S-22) will not increase NOx emissions from the baseline total of 195.3 and 191.8 tons per year, respectively.) [Basis: New Source Review trigger, BACT, Cumulative Increase,.Offsets, SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888]	Y	
Part 19	The three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Monitoring and records]	Y	
Part 20	Permit Holder shall calculate and totalize NOx, CO, POC, S02 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be: NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance CO: 0.0200 lb/MMBtu POC: 0.0023 lb/MMBtu SO2: 0.0069 lb/MMBtu PM10: 0.0040 lb/MMBtu The results shall be retained on site for a period of at least five years and made available to District staff upon request. [Basis: BACT, Cumulative Increase]	Y	

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Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 21	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S- 21, S-22 and S-220) or the three abatement devices (A- 43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1 or 20% opacity. [Basis: BAAQMD 6-301]	Y	
Part 22	For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]	Y	
Part 23	Except during startup and shutdown, emissions of nitrogen oxides from the S-220 Hot Oil System shall not exceed 10 ppmv, dry, corrected to 3% oxygen, (0.0118 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 24	For the S-220 Hot Oil System, CO emissions shall not exceed 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 25	S-220 shall be abated at all times by A-45 Selective Catalytic Reduction System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 26	Except during periods of startup and shutdown, ammonia emissions (ammonia slip) from the SCR unit (A-45) shall not exceed 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 27	For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]	Y	
Part 29	The total combined heat input for S-220 shall not to exceed 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 30	The maximum firing rate of the S-220 MRU Hot Oil Furnace shall not exceed 351 million Btu per hour. [Basis: Cumulative Increase, Toxics]	Y	
Part F	Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. For condition number 15, the CEM for the Refinery fuel gas shall include a data-logging device that averages the CEM concentration readings over the 24-hour time period (calendar day). [Basis: BACT]	Y	

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Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part G	The Permit Holder 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 five 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 the following: Fuel usage type and amount for: S-220 Hot Oil System S-21 Hydrogen Reformer Furnace S-22 Hydrogen Reformer Furnace CEM data and CEM indicated excesses; Fuel gas H2S concentration (24-hour Average); Fuel gas total reduced sulfur Concentration Average) Fuel gas usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual Firing Rate (Btu/month) Miscellaneous [Basis: BACT]	Y	
Part H	Any process vessel depressurization gas shall be vented to a control device with overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466			
Part 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 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 9-10-305]	Y	4/01/04
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	4/01/04
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs	N	1/1/05

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	O2 Monitoring Device Installation	N	1/1/05
Part 10	Recordkeeping	N	1/1/05

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Source-Specific Applicable Requirements
Steam Generator
S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provision and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	

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S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 3	**Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)**		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
BAAQMD · Regulation 10 Subpart Db	**Federal NSPS, Industrial-Commercial-Institutional Steam Generating Units (02/16/2000)**		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
BAAQMD · Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart Db	**NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (12/16/1987)**		
40 CFR 60.40b(a)	Applicable to Steam Generating Units	Y	
40 CFR 60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
40 CFR 60.44b(h)	NOx standard applicable at all times	Y	
40 CFR 60.44b(i)	30-day rolling average	Y	
40 CFR 60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(c)	Compliance determined per 60.46b(e)	Y	
40 CFR 60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(e)(1)	Initial compliance test procedures	Y	
40 CFR 60.46b(e)(3)	30 day rolling average	Y	
40 CFR 60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO2 Discharge.	Y	
40 CFR 60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
40 CFR 60.48b(d)	Continuous NOx monitors measure 1-hour average NO2 emission rates	Y	
40 CFR 60.48b(e)	Complies with 60.13	Y	
40 CFR 60.48b(e)(2)	Span Values for NOx.	Y	
40 CFR 60.48b(e)(3)	Span Values for NOx rounded to nearest 500ppm.	Y	
40 CFR 60.48b(f)	Standby Monitoring Systems	Y	
40 CFR 60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
40 CFR 60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
40 CFR 60.49b(g)	Recordkeeping – NOx data	Y	
40 CFR 60.49b(g)(1)	Calendar Date	Y	
40 CFR 60.49b(g)(10)	CEMS daily drift test results	Y	
40 CFR 60.49b(g)(2)	Average Hourly NOx	Y	
40 CFR 60.49b(g)(3)	30-day Average NOx	Y	
40 CFR 60.49b(g)(4)	Identification of 30-day Average NOx	Y	
40 CFR 60.49b(g)(5)	Insufficient Data	Y	
40 CFR 60.49b(g)(6)	Excluding Data	Y	
40 CFR 60.49b(g)(7)	Identification of "F" factor	Y	
40 CFR 60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
40 CFR 60.49b(g)(9)	Modifications of CMS	Y	
40 CFR 60.49b(h)	Excess emission reports	Y	
40 CFR 60.49b(h)(2)	Subject to 60.44b NOx standard	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	
40 CFR 60.49b(o)	Records retained for 2 years	Y	
40 CFR 60.49b(v)	Electronic Quarterly Reports	Y	
40 CFR 60.49b(w)	Semi-Annual Reports	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 2	NOx Continuous Emission Monitoring Systems	Y	

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S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition # 16027			
Part 1	Fugitive Emissions Components: All hydrocarbon valves greater than 2 inches shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. All flanges installed in the piping systems shall be equipped with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. <Basis: BACT>	Y	
Part 3	Fuel Gas System: The refinery low-pressure fuel gas shall not exceed any of the following: (a) 100 ppmv H2S, averaged over a 24-hour calendar day and (b) 160 PPM H2S, averaged over any 3-hour period. < Basis: Cumulative Increase, BACT, NSPS>	Y	
Part 4	Fuel Gas System: The refinery low-pressure fuel gas shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four-quarter period. <BACT> <Contemporaneous offsets for S02 and PM10 emissions>	Y	
Part 5	Fuel Gas System: The Permit Holder shall install and operate a District continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. < Basis: Cumulative Increase >	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Fuel Gas System: The Permit Holder shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions number 3 and 4, based on the previous 24 individual hourly averages. On a quarterly basis, the Permit Holder shall report: (a) the daily fuel consumption at S-237, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. < Basis Cumulative Increase >	Y	
Part 7	The S-237 Boiler shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. < Basis: Cumulative Increase, Toxics, offsets>	Y	
Part 8	Total emissions form this combustion source (S-237) including startups and shutdowns, shall not exceed the following annual limits: **Pollutant** **Annual (tons)** NOx 13.278 CO 44.721 SO2 8.644 PM10 3.132 POC 2.881 Combustion emissions shall be calculated using the following emission factors: NOx Summation of daily emissions using CEM data CO 0.0200 lb/MMBtu SO2 0.0069 lb/MMBtu PM10 0.0025 lb/MMBtu POC 0.0023 lb/MMBtu. < Basis: Cumulative Increase, Offsets>	Y	
Part 9	The S-237 Boiler shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. (This is a parametric monitor as defined in Regulation 1-238.) < Basis: Monitoring and Records>	Y	
Part 10	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1 or 20% opacity, as required by Regulation 6. < Basis: BAAQMD 6-301>	Y	

IV. Source Specific Applicable Requirements

Table IV - A20
Source-Specific Applicable Requirements
Steam Generator
S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	Startups and shutdowns shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to boiler dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units.S-237 Boiler. < Basis: Cumulative Increase, offsets, operational allowances>	Y	
Part 12	Except during startup and shutdown, emissions of nitrogen oxides from the S-237 shall not exceed 9 ppmv, dry, corrected to 3% oxygen, (0.0106 lb/MMBtu) averaged over any 3 consecutive hours. < Basis: BACT, offsets>	Y	
Part 13	For the S-237 Boiler, CO emissions shall not exceed 50 ppmv, dry, corrected to 3% oxygen, (0.0357 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. Demonstration of compliance will be based on source test data < Basis: BACT>	Y	
Part 14	S-237 shall be abated at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. < Basis: BACT control>	Y	
Part 15	Except during periods of startup and shutdown, ammonia emissions (ammonia slip) from the SCR unit (A-58) shall not exceed 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. Demonstration of compliance shall be based on source test data. < Basis: Cumulative Increase, Toxics>	Y	
Part 16	The Permit Holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and 02. <Monitoring and records>	Y	
Part 18	The total combined heat input for S-237 shall not exceed 2,505,360 million BTUs (HHV) in any 365 consecutive day period. < Basis: Cumulative Increase, Offsets>	Y	
Part 19	The total combined heat input for S-237 shall not exceed 7,560 million BTUs in any calendar day period. < Basis: Cumulative Increase>	Y	
Part 22	The Owner/Operator shall conduct a District-approved source test on an annual basis on Source S-237 to demonstrate compliance with the limit in Part 13 of this condition. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from the date of entry and shall be made available to District staff upon request.< Basis: Regulation 2-6-503>	Y	

IV. Source Specific Applicable Requirements

Table IV - A20
Source-Specific Applicable Requirements
Steam Generator
S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. 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 6-301]	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - A21
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
S-240, S-241, S-242 (P-2401C, P-2602, P-2608B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-303.1	Ringelmann No. 2 Limitation	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 Emissions Limitations (3/15/1995)**		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 Rule 8 ·	**Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (08/01/2001)**		
9-8-110.4	Exemptions: Emergency Standby Engines	Y	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Hours of operation (total)	N	
9-8-530.2	Hours of operation (emergency)	N	
9-8-530.3	Nature of emergency condition	N	

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
BAAQMD · Regulation 1	**General Provision and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring Requirements and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/`1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 Rule 9	**Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (09/21/1994)**		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours between May 1 and October 31.	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301	Emission Limits, General	Y	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	Y	
9-9-401	Certification, Efficiency	Y	
9-9-601	Determination of Emissions	Y	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD · Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
BAAQMD · Regulation 10 Subpart GG	**NSPS Incorporation by Reference, Stationary Gas Turbines (02/16/2000)**		
10-40	Subpart GG. Standards of Performance For Stationary Gas Turbines	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except or gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(a)(4)(i)	Span value for continuous H2S monitor	Y	
40 CFR 60.105(a)(4)(ii)	Continuous H2S monitoring for fuel gas combustion devices having a common source of fuel gas.	Y	
40 CFR 60.105(a)(4)(iii)	Performance evaluations for continuous H2S monitor.	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Subpart GG	**NSPS GG for Stationary Gas Turbines (10/17/2004)**		
40 CFR 60.330(a)	Applicable to Stationary Gas Turbines greater than 10 MM Btu/hr	Y	
40 CFR 60.330(b)	Applicable to Facilities Constructed after October 3, 1977	Y	
40 CFR 60.333(b)	Fuel Sulfur Content cannot exceed 0.8 percent by weight	Y	
40 CFR 60.334(b)(2)	Monitoring Requirement for Sulfur content in fuel	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
40 CFR 60.334(c)(2)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.335(d)	Fuel sulfur content compliance methods	Y	
40 CFR 60.335(e)	Fuel sulfur content test methods	Y	
BAAQMD Condition # 19177			
Part 1	Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the owner will provide the following offsets: (Basis: NOx and POC) Phase I (S-1030 and S-1031) NOx: 13.162TPY from Certificate # 703 Phase II (S-1032 and S-1033) NOx: 18.477 TPY Total 18.256 TPY NOx from Certificate #703 0.221 TPY POC for NOx from Certificate #682 POC: 7.401 TPY POC from Certificate #682	Y	
Part 2	For SO2 emissions offsets, a curtailment group is established as follows: (Basis: SO2 offsets) Curtailment Group: Emission Sources Total Group Baseline S-237 Steam Boiler SG1032; S-220 Hot Oil Furnace F-4460; MTBE Ships; S-40 Boiler SG2301 Phase I New GT/HRSG (S-1030 & S-1031) Phase II New GT/HRSG (S-1032 & S-1033) a. SO2 emissions from the Curtailment Group will not exceed 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit. b. Emissions will be calculated using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. Emissions from MTBE ships will be calculated using the District approved method established for the ships in Application #6968, Condition #10797. c. A quarterly report of the group emissions will be submitted to the District, in a District approved format, to document compliance.	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 3	The owner/operator of the proposed power plant (S-1030, S-1031, S-1032, S-1033) shall minimize emissions of carbon monoxide and nitrogen oxides from these sources to the maximum extent possible during the commissioning period. Conditions 3 through 12 shall only apply during the commissioning period as defined above. Unless otherwise indicated, the remaining conditions shall apply after the commissioning period has ended.	Y	
Part 4	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Gas Turbine combustors and Heat Recovery Steam Generator duct burners shall be tuned to minimize the emissions of carbon monoxide and nitrogen oxides.	Y	
Part 5	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the A-60/A-62 SCR System, and A-61/A-63 CO Oxidation Catalyst System shall be installed, adjusted, and operated to minimize the emissions of carbon monoxide and nitrogen oxides from S-1030 Gas Turbine and S-1031 Heat Recovery Steam Generator.	Y	
Part 6	Coincident with the as designed operation of A-60/62 SCR System, the Gas Turbines (S-1030 and S-1032) and the HRSG (S-1031 and S-1033) shall comply with the NOx and CO emission limitations specified in conditions 18(a), 18(b), 19(b) and 19(d).	Y	
Part 7	The owner/operator shall submit a plan to the District Permit Services Division and the CEC CPM at least four weeks prior to first firing of S-1030 or S-1032 Gas Turbine describing the procedures to be followed during the commissioning of the gas turbine and HRSG. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation and operation of the SCR systems and oxidation catalysts, the installation, calibration, and testing of the CO and NOx continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S-1030 or S-1032) and HRSGs (S-1031 or S-1033) without abatement by their respective SCR and CO Catalyst Systems.	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 8	During the commissioning period, the owner/operator shall demonstrate compliance with conditions 10 through 12 through the use of properly operated, and maintained continuous emission monitors and data recorders for the following parameters: firing hours for the gas turbine and HRSG fuel flow rates through the trainstack gas nitrogen oxide (and oxygen) emission concentrations at P-60/P-62stack gas carbon monoxide emission concentrations P-60/P-62stack gas SO2 emission concentrations at P-60/P-62 or fuel TRS/H2S concentrations. The monitored parameters shall be recorded at least once every 15 minutes (excluding calibration periods as required by the MOP or when the monitored source is not in operation) for the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033). The owner/operator shall use District-approved methods to calculate heat input rates, NOx mass emission rates, carbon monoxide mass emission rates, SOx mass emission rates, and emission concentrations of NOx, SOx, and CO, summarized for each clock hour and each calendar day. All records shall be retained on site for at least 5 years from the date of entry and made available to District personnel upon request.	Y	
Part 9	The District-approved continuous emission monitors specified in condition 8 shall be installed, calibrated, and operational prior to first firing of the Gas Turbines (S-1030 or S-1032) and Heat Recovery Steam Generator (S-1031 or S-1033). After first firing of the turbine, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the resulting range of CO, SOx, and NOx emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval.	Y	
Part 10	The total number of firing hours of S-1030/S-1032 Gas Turbines and S-1031/S-1033 Heat Recovery Steam Generators without abatement of nitrogen oxide emissions by A-60/A-62 SCR System and/or A-61/A-63 Oxidation Catalyst System shall not exceed 250 hours for each turbine and associated HRSG train during the commissioning period. Such operation of S-1030/S-1032 Gas Turbine and S-1031/S-1033 HRSG without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational. Upon completion of these activities, the owner/operator shall provide written notice to the District Permit Services and Enforcement Divisions and the unused balance of the 250 firing hours, without abatement, for each turbine train shall expire.	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 11	The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in condition 22.	Y	
Part 12	Combined pollutant mass emissions from the Gas Turbine (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) shall not exceed the following limits during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines and HRSGs (S-1030, S-1031, S-1032 & S-1033).NOx (as NO2) 360.34 pounds per calendar day CO 513.216 pounds per calendar day POC (as CH4) 97.776 pounds per calendar dayPM10 224.08 pounds per calendar daySO2 516 pounds per calendar day	Y	
Part 13	The Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)	Y	
Part 14	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S1032 and S-1033) shall each not exceed 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in each power train (S-1030 or S-1032) shall not exceed 500 MM Btu/hr (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 15	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) shall each not exceed 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 16	The combined cumulative heat input rate for each power training consisting of Phase I (S-1030 and S-1031) or Phase II (S-1032 and S-1033) shall not exceed 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)	Y	
Part 17	S-1030/S-1032 Gas Turbines and S-1031/S-1033 HRSGs shall be abated by the properly operated and properly maintained A-60/A-62 Selective Catalytic Reduction (SCR) System and A-61/A-63 CO Oxidation Catalyst System whenever fuel is combusted at those sources and the catalyst bed has reached minimum operating temperature as designated by the manufacturer. (Basis: BACT for NOx)	Y	

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Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 18	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 18(a)(1)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period.(Basis: BACT for NOx when firing natural gas)	Y	
Part 18(a)(2)	After the first 3 hours of operation of the Phase II Cogeneration Unit on natural gas exclusively during a changeover from refinery gas, the Owner/Operator shall limit the emissions of nitrogen oxides (NOx) at emission point P-62 to no more than 2.0 ppmv, on a dry basis, corrected to15% O2, averaged over one hour period. During this three hour transition period, the Emissions of nitrogen oxides (NOx) at emission point P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period. (Basis: Phase II BACT for NOx when firing natural gas)	Y	
Part 18(b)	The carbon monoxide emissions concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)	Y	
Part 18(c)	Ammonia (NH3) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
Part 18(d)	The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH4) from P-60 or P-62 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/HRSG train.. (Basis: BACT for POC when firing natural gas)	Y	
Part 18(e)	For sulfur dioxide (SO2) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for SO2 when firing natural gas),	Y	
Part 18(f)	For particulate (PM10) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for PM10 when firing natural gas)	Y	

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Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 19	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 19(a)	Emissions of nitrogen oxides (NOx), calculated in accordance with District approved methods as NO2, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) or P-62 (the combined exhaust point for the S-1032 Gas Turbine and the S-1033 HRSG after abatement by the A-62 SCR system) shall not exceed 7.29 pounds per clock hour. (Basis: BACT for NOx, Offsets)		Y
Part 19(b)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over any 3-clock hour period(Basis: BACT for NOx)	Y	
Part 19(c)	Carbon monoxide mass emissions at P-60 or P-62 shall not exceed 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)	Y	
Part 19(d)	The carbon monoxide emission concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO)	Y	
Part 19(e)	Ammonia (NH3) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
Part 19(f)	Precursor organic compound (POC) mass emissions (as CH4) at P-60 or P-62 shall not exceed 2.037 pounds per hour. Demonstration of compliance will be based on source test results. (Basis: BACT)	Y	
Part 19(g)	Sulfur dioxide (SO2) mass emissions at P-60 or P-62 shall not exceed 10.75 pounds per hour (rolling 24 hour average). Sulfur concentrations in refinery fuel gas shall not exceed 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT) Sulfur concentrations in fuel gas fired in S-1030, S-1031, S-1032 and S-1033 shall not exceed 100 ppm TRS (rolling 24 hour average). (Basis: BACT) Hydrogen sulfide (H2S) concentrations in refinery fuel gas shall not exceed 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.1
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 19(h)	The Owner/Operator shall limit the particulate matter (PM10) mass emissions from P-60 or P-62 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr averaged over any consecutive 24-hours. Demonstration of compliance will be based on source test results. (Basis: BACT for PM10)	Y	
Part 20	The sulfuric acid emissions (SAM) from P-60 and P-62 combined shall be less than 7 tons in any consecutive four quarters. (Basis: PSD)	Y	
Part 21	A District approved initial source test will be commenced within 60 days of startup to demonstrate compliance with the NOx, CO, POC, TRS, SO2, PM10, NH3, and SAM levels in Conditions number 18, 19 or 20. For purposes of SAM, the applicant shall also test for SO3 and ammonium sulfates. The test results shall be forwarded to the District within 60 days of completion of the field test. The test should verify emission compliance at 80% or more of maximum firing on: 1. Gas Turbine firing natural gas only 2. Gas Turbine and HRSG firing natural gas only 3. Gas Turbine firing refinery fuel gas only 4. Gas Turbine and HRSG firing refinery fuel gas only. (Basis: PSD, BACT, TRMP,)	Y	
Part 22	Total emissions from each power train consisting of Phase I and Phase II (S-1030, S-1031, S-1032 and S-1033) shall not exceed the following annual limits (365 day rolling average): (Basis: Cumulative Increase, Offsets, PSD)	Y	
Part 22(a)	Phase I (S-1030 and S-1031)NOx - 28.603 TPY (based on CEM data) POC – 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY)SOx – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM10 – 6.803 TPY (based on source test results)Phase II (S-1032 and S-1033) NOx - 28.603 TPY (based on CEM data)POC – 8.332 TPY (based on Gas Turbine POC emissions of 7.983 TPY plus fugitive emissions of 0.349 TPY)SOx – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM10 – 6.803 TPY (based on source test results)	Y	

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COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 22(b)	The PM10 emissions may be adjusted based on source test results for S-1030, S-1031, S-1032 and S-1033) if the particulate emission rate exceeds the assumed level. In no case shall the adjustment when added to the assumed level for Phase I exceed a total of 10.919 tons per year of PM10 emissions. This allowance is based only on the construction of Phase I. If Phase II is constructed, the adjustment when added to the assumed level in Phase I and Phase II, including PM10 emissions from the exempt wet cooling tower, shall not exceed a project total of 15.477 tons per year of PM10. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	
Part 22(c)	The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Condition 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I or 15.477 tons/year for both phases. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	
Part 22(d)	The owner shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The report shall be submitted to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)	Y	

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COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 23	To demonstrate compliance with conditions 19(f), 19(g),19(h), 20 and parts of 22, the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The owner/operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:(a) For each calendar day, POC, PM10, SAM and SO2 emissions shall be summarized for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] and/or [Gas Turbine (S-1032)/HRSG (S-1033)](b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for both power trains: Gas Turbine (S-1030)/HRSG (S-1031) and/or Gas Turbine (S-1032)/HRSG (S-1033).(Basis: Offsets, PSD, Cumulative Increase)	Y	
Part 24	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 comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. 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 60 days of conducting the tests. (Basis: Offsets, PSD, cumulative increase)	Y	
Part 25	The owner/operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502)	Y	

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COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 26	The owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501)	Y	
Part 27	The owner/operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)	Y	
Part 28	The stack height of emission points P-60 and P-62-shall each be at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)	Y	
Part 29	The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)	Y	
Part 30	Within 180 days of the issuance of the Authority to Construct, the Owner/Operator shall contact the BAAQMD Technical Services Division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests required. All source testing and monitoring shall be conducted in accordance with the BAAQMD Manual of Procedures. (Basis: Regulation 1-501)	Y	
Part 31	The startup period for the Gas Turbines/HRSGs shall last for no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics]	Y	
Part 33	Pursuant to 40 CFR Part 72.30(b)(2)(ii) of the Federal Acid Rain Program, the owner/operator of the Valero Power Plant shall not operate Phase II of the cogeneration project until either: 1) a Title IV Operating Permit has been issued; 2) 24 months after a Title IV Operating Permit Application has been submitted, whichever is earlier. (Basis: Regulation 2, Rule 7)	Y	
Part 34	The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)	Y	

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COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 35	The owner shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H 2S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030, S-1031, S-1032 and S-1033). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO2, BACT)	Y	
Part 36	The owner shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H2S content of the refinery fuel gas. On a quarterly basis, the owner shall report: (a) the daily fuel consumption, (b) hourly H2S content (as averaged over 3 consecutive hours) of the refinery fuel gas, (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours), (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged reduced sulfur content using the last four quarters. 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 quarter. (Basis: BACT, Offsets, Cumulative Increase)	Y	
Part 37	The four sources (S-1030, S-1031, S-1032 and S-1033) shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. (Basis: BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 38	The owner shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NOx, CO and O2. (Basis: BACT, Offsets, Cumulative Increase)	Y	
Part 39	The owner shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]	Y	
Part 40	The owner shall conduct a quarterly source test to demonstrate compliance with condition 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO2, SO3, SAM and ammonium sulfates. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. (Basis: Cumulative Increase)	Y	

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COGEN (Phase 1) Turbine S-1030 (GT-4901)
COGEN (Phase II) Turbine S-1032 (GT-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effectiv e Date
Part 41	All hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II shall be equipped with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets)	Y	
Part 43	All connectors installed in the piping systems as a result of Phase I or Phase II of the Cogeneration project shall be equipped with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)	Y	
Part 44	All new hydrocarbon centrifugal compressors installed as part of Phase I or Phase II of the Cogeneration project shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18. All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)	Y	
Part 46	The Cogeneration project consisting of S-1030, S-1031, S-1032, S-1033 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors The annual mass limit for POC (Condition number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit issuance. [Basis: Cumulative Increase, Offsets]	Y	
Part 48	The S-41 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1032 and S-1033 power train. The applicant shall enter into the record log the date the boiler was shutdown. (Basis: offsets)	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provision and Definitions (05/02/2001)**		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring Requirements		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/`1998)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	

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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 3	**Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)**		
9-3-303	New or Modified Heat Transfer Oepration Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
BAAQMD · Regulation 9 Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)**		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD · Regulation 9 Rule 11	**Inorganic Gaseous Pollutants, Nox and CO from Utility Electric Power Gen Boilers (5/17/2000)**		
9-11-114	Exemption, Heat Recovery Steam Generators	Y	
BAAQMD · Regulation 10 Subpart Db	**Federal NSPS, Industrial-Commercial-Institutional Steam Process Heaters Generating Units (02/16/2000)**		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
BAAQMD · Regulation 10 Subpart J	**NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 Part 60 Subpart Db	**NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (12/16/1987)**		
40 CFR 60.40b(a)	Applicable to Steam Generating Units	Y	
40 CFR 60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
40 CFR 60.44b(a)	NOx Standard for Natural Gas only firing	Y	
40 CFR 60.44b(a)(4)	NOx Standard for Natural Gas only firing	Y	
40 CFR 60.44b(e)	NOx standard for refinery produced byproduct (i.e., fuel gas) with oil or natural gas combustion, including startup provisions	Y	
40 CFR 60.44b(h)	NOx standard applicable at all times	Y	

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COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.44b(i)	30-day rolling average	Y	
40 CFR 60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(c)	Compliance determined per 60.46b(e)	Y	
40 CFR 60.46b(f)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(f)(1)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(f)(2)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(f)(2)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.	Y	
40 CFR 60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1).	Y	
40 CFR 60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO2 Discharge.	Y	
40 CFR 60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
40 CFR 60.48b(d)	Continuous NOx monitors measure 1-hour average NO2 emission rates	Y	
40 CFR 60.48b(e)	Complies with 60.13	Y	
40 CFR 60.48b(e)(2)	Span Value for Nitrogen Oxides	Y	
40 CFR 60.48b(e)(3)	Span Value for Nitrogen Oxides rounded to nearest 500 ppm	Y	
40 CFR 60.48b(f)	Standby Monitoring Systems	Y	
40 CFR 60.49b(a)	Report Date of Initial Startup	Y	
40 CFR 60.49b(a)(1)	Report Heat Input Capacity and Identify Fuels to be Combusted	Y	
40 CFR 60.49b(a)(2)	Report of Federally Enforceable Requirement that Limits Annual Fuel Capacity.	Y	

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COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.49b(a)(3)	Report Annual Capacity Factor for all Fuels Fired	Y	
40 CFR 60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
40 CFR 60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
40 CFR 60.49b(g)	Recordkeeping – NOx data	Y	
40 CFR 60.49b(g)(1)	Calendar Date	Y	
40 CFR 60.49b(g)(10)	CEMS daily drift test results	Y	
40 CFR 60.49b(g)(2)	Average Hourly NOx	Y	
40 CFR 60.49b(g)(3)	30-day Average NOx	Y	
40 CFR 60.49b(g)(4)	Identification of 30-day Average NOx	Y	
40 CFR 60.49b(g)(5)	Insufficient Data	Y	
40 CFR 60.49b(g)(6)	Excluding Data	Y	
40 CFR 60.49b(g)(7)	Identification of "F" factor	Y	
40 CFR 60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
40 CFR 60.49b(g)(9)	Modifications of CMS	Y	
40 CFR 60.49b(h)	Excess emission reports	Y	
40 CFR 60.49b(h)(2)	Subject to 60.44b NOx standard	Y	
40 CFR 60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.49b(o)	Records retained for 2 years	Y	
40 CFR 60.49b(v)	Electronic Quarterly Reports	Y	
40 CFR 60.49b(w)	Semi-Annual Reports	Y	
NSPS Title 40 Part 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
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 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(a)(4)(i)	Span value for continuous H2S monitor	Y	
40 CFR 60.105(a)(4)(ii)	Continuous H2S monitoring for fuel gas combustion devices having a common source of fuel gas.	Y	
40 CFR 60.105(a)(4)(iii)	Performance evaluations for continuous H2S monitor.	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (01/12/2004)**		
Performance Specification 2	NOx Continuous Emission Monitoring Systems	Y	
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (01/12/2004)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
BAAQMD Condition # 19177			
Part 1	Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the owner will provide the following offsets: (Basis: NOx and POC) Phase I (S-1030 and S-1031) NOx: 13.162TPY from Certificate # 703 Phase II (S-1032 and S-1033) NOx: 18.477 TPY Total 18.256 TPY NOx from Certificate #703 0.221 TPY POC for NOx from Certificate #682 POC: 7.401 TPY POC from Certificate #682	Y	

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COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	For SO2 emissions offsets, a curtailment group is established as follows: (Basis: SO2 offsets)Curtailment Group: Emission Sources Total Group Baseline S-237 Steam Boiler SG1032 S-220 Hot Oil Furnace F 4460 MTBE Ships S-40 Boiler SG2301 Phase I New GT/HRSG (S-1030 & S-1031)Phase II New GT/HRSG (S-1032 & S-1033) a. SO2 emissions from the Curtailment Group will not exceed 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit. b. Emissions will be calculated using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. Emissions from MTBE ships will be calculated using the District approved method established for the ships in Application #6968, Condition #10797. c. A quarterly report of the group emissions will be submitted to the District, in a District approved format, to document compliance. (Basis: S02 offsets)	Y	
Part 3	The owner/operator of the proposed power plant (S-1030, S-1031, S-1032, S-1033) shall minimize emissions of carbon monoxide and nitrogen oxides from these sources to the maximum extent possible during the commissioning period. Conditions 3 through 12 shall only apply during the commissioning period as defined above. Unless otherwise indicated, the remaining conditions shall apply after the commissioning period has ended.	Y	
Part 4	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Gas Turbine combustors and Heat Recovery Steam Generator duct burners shall be tuned to minimize the emissions of carbon monoxide and nitrogen oxides.	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the A-60/A-62 SCR System, and A-61/A-63 CO Oxidation Catalyst System shall be installed, adjusted, and operated to minimize the emissions of carbon monoxide and nitrogen oxides from S-1030 Gas Turbine and S-1031 Heat Recovery Steam Generator.	Y	
Part 6	Coincident with the as designed operation of A-60/62 SCR System, the Gas Turbines (S-1030 and S-1032) and the HRSG (S-1031 and S-1033) shall comply with the NOx and CO emission limitations specified in conditions 18(a), 18(b), 19(b) and 19(d).	Y	
Part 7	The owner/operator shall submit a plan to the District Permit Services Division and the CEC CPM at least four weeks prior to first firing of S-1030 or S-1032 Gas Turbine describing the procedures to be followed during the commissioning of the gas turbine and HRSG. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation and operation of the SCR systems and oxidation catalysts, the installation, calibration, and testing of the CO and NOx continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S-1030 or S-1032) and HRSGs (S-1031 or S-1033) without abatement by their respective SCR and CO Catalyst Systems.	Y	

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Source-Specific Applicable Requirements
COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	During the commissioning period, the owner/operator shall demonstrate compliance with conditions 10 through 12 through the use of properly operated, and maintained continuous emission monitors and data recorders for the following parameters: firing hours for the gas turbine and HRSG fuel flow rates through the trainstack gas nitrogen oxide (and oxygen) emission concentrations at P-60/P-62stack gas carbon monoxide emission concentrations P-60/P-62stack gas SO2 emission concentrations at P-60/P-62 or fuel TRS/H2S concentrations. The monitored parameters shall be recorded at least once every 15 minutes (excluding calibration periods as required by the MOP or when the monitored source is not in operation) for the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033). The owner/operator shall use District-approved methods to calculate heat input rates, NOx mass emission rates, carbon monoxide mass emission rates, SOx mass emission rates, and emission concentrations of NOx, SOx, and CO, summarized for each clock hour and each calendar day. All records shall be retained on site for at least 5 years from the date of entry and made available to District personnel upon request.	Y	
Part 9	The District-approved continuous emission monitors specified in condition 8 shall be installed, calibrated, and operational prior to first firing of the Gas Turbines (S-1030 or S-1032) and Heat Recovery Steam Generator (S-1031 or S-1033). After first firing of the turbine, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the resulting range of CO, SOx, and NOx emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval.	Y	
Part 10	The total number of firing hours of S-1030/S-1032 Gas Turbines and S-1031/S-1033 Heat Recovery Steam Generators without abatement of nitrogen oxide emissions by A-60/A-62 SCR System and/or A-61/A-63 Oxidation Catalyst System shall not exceed 250 hours for each turbine and associated HRSG train during the commissioning period. Such operation of S-1030/S-1032 Gas Turbine and S-1031/S-1033 HRSG without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational. Upon completion of these activities, the owner/operator shall provide written notice to the District Permit Services and Enforcement Divisions and the unused balance of the 250 firing hours, without abatement, for each turbine train shall expire.	Y	

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Source-Specific Applicable Requirements
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COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in condition 22.	Y	
Part 12	Combined pollutant mass emissions from the Gas Turbine (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) shall not exceed the following limits during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines and HRSGs (S-1030, S-1031, S-1032 & S-1033).NOx (as NO2) 360.34 pounds per calendar day CO 513.216 pounds per calendar day POC (as CH4) 97.776 pounds per calendar dayPM10 224.08 pounds per calendar daySO2 516 pounds per calendar day	Y	
Part 13	The Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)	Y	
Part 14	The Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)	Y	
Part 15	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) shall each not exceed 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 16	The combined cumulative heat input rate for each power training consisting of Phase I (S-1030 and S-1031) or Phase II (S-1032 and S-1033) shall not exceed 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)	Y	
Part 17	S-1030/S-1032 Gas Turbines and S-1031/S-1033 HRSGs shall be abated by the properly operated and properly maintained A-60/A-62 Selective Catalytic Reduction (SCR) System and A-61/A-63 CO Oxidation Catalyst System whenever fuel is combusted at those sources and the catalyst bed has reached minimum operating temperature as designated by the manufacturer. (Basis: BACT for NOx)	Y	

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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 18	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 18(a)(1)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period.(Basis: BACT for NOx when firing natural gas)	Y	
Part 18(a)(2)	After the first 3 hours of operation of the Phase II Cogeneration Unit on natural gas exclusively during a changeover from refinery gas, the Owner/Operator shall limit the emissions of nitrogen oxides (NOx) at emission point P-62 to no more than 2.0 ppmv, on a dry basis, corrected to15% O2, averaged over one hour period. During this three hour transition period, the Emissions of nitrogen oxides (NOx) at emission point P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period. (Basis: Phase II BACT for NOx when firing natural gas)	Y	
Part 18(b)	The carbon monoxide emissions concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)	Y	
Part 18(c)	Ammonia (NH3) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
Part 18(d)	The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH 4) from P-60 or P-62 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/ HRSG train. (Basis: BACT for POC when firing natural gas)	Y	
Part 18(e)	For sulfur dioxide (SO2) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for SO2 when firing natural gas),	Y	
Part 18(f)	For particulate (PM10) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for PM10 when firing natural gas)	Y	

IV. Source Specific Applicable Requirements

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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 19	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 19(a)	Emissions of nitrogen oxides (NOx), calculated in accordance with District approved methods as NO2, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) or P-62 (the combined exhaust point for the S-1032 Gas Turbine and the S-1033 HRSG after abatement by the A-62 SCR system) shall not exceed 7.29 pounds per clock hour. (Basis: BACT for NOx, Offsets)		Y
Part 19(b)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over any 3-clock hour period(Basis: BACT for NOx)	Y	
Part 19(c)	Carbon monoxide mass emissions at P-60 or P-62 shall not exceed 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)	Y	
Part 19(d)	The carbon monoxide emission concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO)	Y	
Part 19(e)	Ammonia (NH3) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
Part 19(f)	Precursor organic compound (POC) mass emissions (as CH4) at P-60 or P-62 shall not exceed 2.037 pounds per hour. Demonstration of compliance will be based on source test results. (Basis: BACT)	Y	
Part 19(g)	Sulfur dioxide (SO2) mass emissions at P-60 or P-62 shall not exceed 10.75 pounds per hour (rolling 24 hour average). Sulfur concentrations in refinery fuel gas shall not exceed 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT) Sulfur concentrations in fuel gas fired in S-1030, S-1031, S-1032 and S-1033 shall not exceed 100 ppm TRS (rolling 24 hour average). (Basis: BACT) Hydrogen sulfide (H2S) concentrations in refinery fuel gas shall not exceed 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)	Y	

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Table IV - A22.2
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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 19(h)	The Owner/Operator shall limit the particulate matter (PM10) mass emissions from P-60 or P-62 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr averaged over any consecutive 24-hours. Demonstration of compliance will be based on source test results. (Basis: BACT for PM10)	Y	
Part 20	The sulfuric acid emissions (SAM) from P-60 and P-62 combined shall be less than 7 tons in any consecutive four quarters. (Basis: PSD)	Y	
Part 21	A District approved initial source test will be commenced within 60 days of startup to demonstrate compliance with the NOx, CO, POC, TRS, SO2, PM10, NH3, and SAM levels in Conditions number 18, 19 or 20. For purposes of SAM, the applicant shall also test for SO3 and ammonium sulfates. The test results shall be forwarded to the District within 60 days of completion of the field test. The test should verify emission compliance at 80% or more of maximum firing on: 1. Gas Turbine firing natural gas only 2. Gas Turbine and HRSG firing natural gas only 3. Gas Turbine firing refinery fuel gas only 4. Gas Turbine and HRSG firing refinery fuel gas only. (Basis: PSD, BACT, TRMP,)	Y	
Part 22	Total emissions from each power train consisting of Phase I and Phase II (S-1030, S-1031, S-1032 and S-1033) shall not exceed the following annual limits (365 day rolling average): (Basis: Cumulative Increase, Offsets, PSD)	Y	
Part 22(a)	Phase I (S-1030 and S-1031)NOx - 28.603 TPY (based on CEM data) POC – 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY)SOx – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM10 – 6.803 TPY (based on source test results)Phase II (S-1032 and S-1033) NOx - 28.603 TPY (based on CEM data)POC – 8.332 TPY (based on Gas Turbine POC emissions of 7.983 TPY plus fugitive emissions of 0.349 TPY)SOx – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM10 – 6.803 TPY (based on source test results)	Y	

IV. Source Specific Applicable Requirements

Table IV - A22.2
Source-Specific Applicable Requirements
COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 22(b)	The PM10 emissions may be adjusted based on source test results for S-1030, S-1031, S-1032 and S-1033) if the particulate emission rate exceeds the assumed level. In no case shall the adjustment when added to the assumed level for Phase I exceed a total of 10.919 tons per year of PM10 emissions. This allowance is based only on the construction of Phase I. If Phase II is constructed, the adjustment when added to the assumed level in Phase I and Phase II, including PM10 emissions from the exempt wet cooling tower, shall not exceed a project total of 15.477 tons per year of PM10. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	
Part 22(c)	The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Condition 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I or 15.477 tons/year for both phases. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	
Part 22(d)	The owner shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The report shall be submitted to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)	Y	

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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 23	To demonstrate compliance with conditions 19(f), 19(g),19(h), 20 and parts of 22, the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The owner/operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:(a) For each calendar day, POC, PM10, SAM and SO2 emissions shall be summarized for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] and/or [Gas Turbine (S-1032)/HRSG (S-1033)](b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for both power trains: Gas Turbine (S-1030)/HRSG (S-1031) and/or Gas Turbine (S-1032)/HRSG (S-1033).(Basis: Offsets, PSD, Cumulative Increase)	Y	
Part 24	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 comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. 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 60 days of conducting the tests. (Basis: Offsets, PSD, cumulative increase)	Y	
Part 25	The owner/operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502)	Y	

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COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 26	The owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501)	Y	
Part 27	The owner/operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)	Y	
Part 28	The stack height of emission points P-60 and P-62-shall each be at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)	Y	
Part 29	The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)	Y	
Part 30	Within 180 days of the issuance of the Authority to Construct, the Owner/Operator shall contact the BAAQMD Technical Services Division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests required. All source testing and monitoring shall be conducted in accordance with the BAAQMD Manual of Procedures. (Basis: Regulation 1-501)	Y	
Part 31	The startup period for the Gas Turbines/HRSGs shall last for no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics]	Y	
Part 33	Pursuant to 40 CFR Part 72.30(b)(2)(ii) of the Federal Acid Rain Program, the owner/operator of the Valero Power Plant shall not operate Phase II of the cogeneration project until either: 1) a Title IV Operating Permit has been issued; 2) 24 months after a Title IV Operating Permit Application has been submitted, whichever is earlier. (Basis: Regulation 2, Rule 7)	Y	
Part 34	The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)	Y	

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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 35	The owner shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H 2S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030, S-1031, S-1032 and S-1033). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO2, BACT)	Y	
Part 36	The owner shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H2S content of the refinery fuel gas. On a quarterly basis, the owner shall report: (a) the daily fuel consumption, (b) hourly H2S content (as averaged over 3 consecutive hours) of the refinery fuel gas, (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours), (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged reduced sulfur content using the last four quarters. 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 quarter. (Basis: BACT, Offsets, Cumulative Increase)	Y	
Part 37	The four sources (S-1030, S-1031, S-1032 and S-1033) shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. (Basis: BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 38	The owner shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NOx, CO and O2. (Basis: BACT, Offsets, Cumulative Increase)	Y	
Part 39	The owner shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]	Y	

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Table IV - A22.2
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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 40	The owner shall conduct a quarterly source test to demonstrate compliance with condition 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO2, SO3, SAM and ammonium sulfates. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. (Basis: Cumulative Increase)	Y	
Part 41	All hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II shall be equipped with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets)	Y	
Part 43	All connectors installed in the piping systems as a result of Phase I or Phase II of the Cogeneration project shall be equipped with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)	Y	
Part 44	All new hydrocarbon centrifugal compressors installed as part of Phase I or Phase II of the Cogeneration project shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18. All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)	Y	
Part 46	The Cogeneration project consisting of S-1030, S-1031, S-1032, S-1033 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors The annual mass limit for POC (Condition number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit issuance. [Basis: Cumulative Increase, Offsets]	Y	
Part 48	The S-41 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1032 and S-1033 power train. The applicant shall enter into the record log the date the boiler was shutdown. (Basis: offsets)	Y	

IV. Source Specific Applicable Requirements

Table IV - A23
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
S-243 (D5101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-303.1	Ringelmann No. 2 Limitation	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 Emissions Limitations (3/15/1995)**		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 · Rule 8	**Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (08/01/2001)**		
9-8-110.4	Exemptions: Emergency Standby Engines	Y	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Hours of operation (total)	N	
9-8-530.2	Hours of operation (emergency)	N	
9-8-530.3	Nature of emergency condition	N	
BAAQMD Condition # 18744			
Part 1	The engine for emergency generator S-243 shall be fired exclusively on diesel fuel having a sulfur content no greater than0.05% by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor.[Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - B1
Source-Specific Applicable Requirements
Coke Transport
S-8 (CYC-1901)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. 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 6-301]	Y	
Part 7	The Owner/Operator shall perform an annual source test on Sources S-8 and, S-176 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results 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. For S-176 only, this source test is only required when dry salt is added to the tank. [Basis: Regulation 6-310]	Y	4/01/04
Part 9	The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). The Owner/Operator shall submit the test results 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 6-311]	Y	

IV. Source Specific Applicable Requirements

Table IV - B2
Source-Specific Applicable Requirements
Activated Carbon Bin
S-11 (TK-2061)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 9897			
Part 1	The maximum receipt of the activated carbon at the Activated Carbon Bin TK-2061 (S-11) shall not exceed 292 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 2	To demonstrate compliance with Condition #1, the monthly receipt of the activated carbon, totaled on a yearly basis, at S-11 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. These records shall be kept for a period of at least 5 years from dateof entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	4/01/04

Table IV - B3
Source-Specific Applicable Requirements
Lime Slurry Tanks
S-174, S-175 (TK-2321, TK-2322)

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

IV. Source Specific Applicable Requirements

Table IV - B3
Source-Specific Applicable Requirements
Lime Slurry Tanks
S-174, S-175 (TK-2321, TK-2322)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 639			
Part 1	The Owner/Operator shall abate the visible emissions from the lime slurry tanks. [Basis: BAAQMD Regulation 1-301]	Y	
Part 2	In order to demonstrate compliance with BAAQMD Regulations 6-301, 6-310 and 6-311, the Owner/Operator shall monitor and record the visible emissions from S-174 and S-175 Lime Slurry Tanks on an annual basis. The visible emissions test shall be conducted during the entire lime offloading operation and the highest visible emissions during the period shall be recorded. If any visible emission exceeds Ringelmann No. 1, the Owner/Operator shall take corrective action to comply with Part 1 of this condition. (Basis: Regulation 6-301, 6-310 and 6-311)	Y	

Table IV - B4
Source-Specific Applicable Requirements
Brine Saturator Tank
S-176 (TK-2325)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	

IV. Source Specific Applicable Requirements

Table IV - B4
Source-Specific Applicable Requirements
Brine Saturator Tank
S-176 (TK-2325)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 3253			
Part 1	If dry salt is added to tank No. 2325 (S-176) a particulate control device shall be added to control any emissions from this source. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. 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 6-301]	Y	4/01/04
Part 7	The Owner/Operator shall perform an annual source test on Sources S-8 and , S-176 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results 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. For S-176 only, this source test is only required when dry salt is added to the tank. [Basis: Regulation 6-310]	Y	4/01/04

IV. Source Specific Applicable Requirements

Table IV - B5
Source-Specific Applicable Requirements
Methanol/Ethanol Railcar Unloading
S-209 (LD-209)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 9296			
Part B1	For the S-209 Methanol/Ethanol Unloading Station: The transport trucks shall travel on paved roads at all times inside of the Permit Holder Facility. [Basis: Cumulative Increase]	Y	
Part B2	For the S-209 Methanol/Ethanol Unloading Station: All deliveries of methanol/ethanol shall be from the transport trucks unless Permit Holder first receives prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]	Y	
Part B4	For the S-209 Methanol/ethanol Unloading Station: The total number of truck deliveries of methanol/ethanol at Permit Holder shall not exceed 2920 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part B5	The dispensed methanol/ethanol from the transport trucks shall be delivered to the S-210 methanol/ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]	Y	
Part B6	Total fugitive POC emissions from S-209 shall not exceed 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part B9	he total number of truck deliveries of methanol/ethanol shall be recorded weekly in a District approved log and totalized monthly. This record shall be retained for a period of at least 5 years from date of entry. it shall be kept on site and made available to District staff upon request. [Basis Banked POC credits]	Y	

IV. Source Specific Applicable Requirements

Table IV - B6
Source-Specific Applicable Requirements
ESP Fines Vacuum Conveying System
S-232 (NO TAG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 12727			
Part 1	The throughput of ESP fines at the Vacuum Conveying System (S-232) shall not exceed 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 3	The operation of S-232 shall be abated properly by the Vacuum Filter (A-54). [Basis: Cumulative Increase]	Y	
Part 5	To demonstrate compliance with Conditions #1 and 2, the monthly throughput records of ESP fines at S-232 and S-233 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	

Table IV - B7
Source-Specific Applicable Requirements
ESP Fines Storage Bin
S-233 (NO TAG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	

IV. Source Specific Applicable Requirements

Table IV - B7
Source-Specific Applicable Requirements
ESP Fines Storage Bin
S-233 (NO TAG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 12727			
Part 2	The throughput of ESP fines at the ESP Fines Storage Bin (S-233) shall not exceed 7300 tons during any rolling 12 consecutive month period.[Basis: Cumulative Increase]	Y	
Part 4	The operation of S-233 shall be abated properly by the Bin Filter (A-55). [Basis: Cumulative Increase]	Y	
Part 5	To demonstrate compliance with Conditions #1 and 2, the monthly throughput records of ESP fines at S-232 and S-233 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, , S-176, S-233and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. These records shall be kept for a period of at least 5 years from dateof entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	4/01/04

Table IV - B8
Source-Specific Applicable Requirements
Pentane Railcar Loading/Unloading Rack
S-1027 (1700)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		

IV. Source Specific Applicable Requirements

Table IV - B8
Source-Specific Applicable Requirements
Pentane Railcar Loading/Unloading Rack
S-1027 (1700)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 2			
8-2-114	Exemption, Miscellaneous Plants	Y	
BAAQMD Condition # 17835			
Part 1	This light ends rail rack (S-1027) shall handle no more than 22,500 barrels per day,as averaged over the quarterly period. [Basis: Cumulative Increase]	Y	
Part 2	This light ends rail rack (S-1027) shall handle no more than 8.2125 million barrels of liquefied gases (propanes, butanes, pentanes) in any consecutive four-quarter period. [Basis: Cumulative Increase, Toxics, BACT]	Y	
Part 3	The Permit Holder shall maintain quarterly records in a District approved log. These records shall be maintained for a period of at least five years. The logs shall be kept on site and made available to District staff upon request. [Basis: Recordkeeping]	Y	

Table IV - B9.1
Source-Specific Applicable Requirements
Vacuum Truck Loading
S-201 (LD-2051)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 11883			

IV. Source Specific Applicable Requirements

Table IV - B9.1
Source-Specific Applicable Requirements
Vacuum Truck Loading
S-201 (LD-2051)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	S-201 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - B9.2
Source-Specific Applicable Requirements
Vacuum Truck Loading
S-202 (LD-2069)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 11884			
Part 1	S-202 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]	Y	

Table IV - C1
Source-Specific Applicable Requirements
PFR Regeneration Facilities
S-27 (NO TAG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	

IV. Source Specific Applicable Requirements

Table IV - C2
Source-Specific Applicable Requirements
Sulfur Storage Pit
S-157 (NO TAG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	

Table IV – C3
Source-Specific Applicable Requirements
Seal Oil Spargers
S-159 (SG-701/GT-701)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 19466			
Part 12	The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - C4.1
Source-Specific Applicable Requirements
Seal Oil Spargers
S-160 (C-1031)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 19466			
Part 2d	The Owner/Operator shall operate S-160 Seal Oil Sparger only when abated by A-13/A-26 Vapor Recovery Compressor to be returned to the refinery fuel gas system. (Basis: Cumulative Increase)	Y	

Table IV - C4.2
Source-Specific Applicable Requirements
Seal Oil Spargers
S-167 and S-168 (C-401, C-2901)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 19466			

IV. Source Specific Applicable Requirements

Table IV - C4.2
Source-Specific Applicable Requirements
Seal Oil Spargers
S-167 and S-168 (C-401, C-2901)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 13	The VOC emissions from S-167 and S-168 Seal Oil Spargers shall be vented in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system . [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - C5
Source-Specific Applicable Requirements
Cooling Tower
S-29 (CT-2401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD · Regulation 8 Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-114	Exemption, Miscellaneous Plants	Y	
BAAQMD · Regulation 11 Rule 10	**Hazardous Pollutants, Hexavalent Chromium Emission from Cooling Towers (11/15/1989)**		
11-10-301	Hexavalent Chromium Removal	Y	
11-10-302.2	Circulating Water Concentration-Wooden Cooling Towers	Y	
11-10-503.2	Monitoring-Wooden Cooling Towers	Y	

Table IV – D1
Source-Specific Applicable Requirements
S-1004 CATALYTIC REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63 Subpart A	**MACT General Provisions**		
63.4	Prohibited Activities and Circumvention	Y	
63.6	Compliance with Standards and Maintenance Requirements	Y	
63.6(e)	Operation and Maintenance Requirements	Y	
63.6(f)	Compliance with Nonopacity Emission Standards	Y	
63.6(g)	Use of Alternative Nonopacity Emission Standard (optional	Y	

IV. Source Specific Applicable Requirements

Table IV – D1
Source-Specific Applicable Requirements
S-1004 CATALYTIC REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7	Performance Tests	Y	
63.8	Monitoring	Y	
63.9	Notifications	Y	
63.9(e)	Notification of Performance Test	Y	
63.9(g)	Notification Requirements for sources with Continuous Monitoring Systems	Y	
63.9(h)	Notification of Compliance Status	Y	
63.9(j)	Change in information already provided	Y	
63.10	Recordkeeping and Reporting Requirements	Y	
63.10(a)	General Information	Y	
63.10(b)	General Recordkeeping Requirements	Y	
63.10(b)(2)	Records to be maintained	Y	
63.10(c)	Recordkeeping requirements for Continuous Monitoring Systems	Y	
63.10(d)	General Reporting Requirements	Y	
63.10(e)	Additional reports for sources with Continuous Monitoring Systems	Y	
63.10(e)(2)	Reporting results of Continuous Monitoring System performance evaluation	Y	
63.10(e)(3)	Excess Emissions and Continuous Monitoring System Performance Report and Summary Report	Y	
NESHAPS Title 40 Part 63 Subpart UUU	**National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.**	**Y**	
63.1562(f)	This subpart does not apply to:	Y	
63.1562(f)(5)	Regeneration vent used during unit depressuring and purging, since vent is routed to fuel gas system	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 Limitations for Hydrogen Chloride (HCl) during coke burn-off and catalyst rejuvenation using wet scrubber: Reduce uncontrolled HCl emissions by 97% or to a concentration of 10 ppmvd corrected to 3%O_2 (Table 22 Item 2)	Y	
63.1567(a)(2)	Operating limits for daily average pH of water and average liquid-to-gas ratio exiting wet scrubber during coke burn-off and catalyst rejuvenation: daily average pH of scrubbing liquid not fall below the limit established during performance test; daily average liquid-to-gas ratio not to fall below the limit established during performance test (Table 23 Item 1.a)	Y	

IV. Source Specific Applicable Requirements

Table IV – D1
Source-Specific Applicable Requirements
S-1004 CATALYTIC REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(b)	Initial Compliance Demonstration	Y	
63.1567(b)(1)	Install Continuous Parameter Monitoring System to record pH of water and liquid and gas flow rate to scrubber (Table 24, Item 1)	Y	
63.1567(b)(2)	Performance Test: measure HCl concentration at the outlet (for the concentration standard) or at the inlet and outlet (for the percent reduction standard) of the scrubber (Table 25, Item 1.a)	Y	
63.1567(b)(3)	Establish Operating Limit: measure and record pH of scrubbing liquid and gas and liquid flow rate every 15 minutes during the performance test. Determine hourly average. (Table 25, Items 1.b and 1.c)	Y	
63.1567(b)(4)	Demonstrate Initial Compliance with Emission Limitations: reduce HCl concentration by 97% or to 10 ppmv (Table 26, Item 2)	Y	
63.1567(b)(5)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan	Y	
63.1567(b)(6)	Submit Notice of Initial Compliance Status	Y	
63.1567(c)	Continuous Compliance Demonstration	Y	
63.1567(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: maintain 97% control efficiency or 10 ppmv HCl concentration (Table 27, Item 2) and collect hourly and daily pH monitoring data and hourly average liquid-to-gas ratio, and maintain both above the operating limit established during performance test (Table 28, Items 1.a and 1.b)	Y	
63.1567(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through 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(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1). Between 4/11/05 and the date continuous monitoring systems are installed and validated and operating limits have been set, maintain a log detailing operation and maintenance of process and equipment.	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	

IV. Source Specific Applicable Requirements

Table IV – D1
Source-Specific Applicable Requirements
S-1004 CATALYTIC REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(a)(1)(ii)	Elect to meet HCl concentration limit (Option 2)	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(c)	Procedures for an Engineering Assessment (optional in lieu of performance test)	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	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(c)	Continuous parameter monitoring requirements	Y	
63.1572(c)(1)	Locate the air flow and liquid flow sensors and other necessary equipment that provides representative flow; use flow rate sensor with ±5% accuracy; reduce abnormal conditions due to up/down stream disturbances; conduct semiannual calibration (Table 41, Item 3); and locate pH sensor in a position that provides a representative measurement; ensure the sample is properly mixed and representative; check calibration every 8 hours; inspect all components; record inspection results (Table 41, Item 5)	Y	

IV. Source Specific Applicable Requirements

Table IV – D1
Source-Specific Applicable Requirements
S-1004 CATALYTIC REFORMER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572(c)(2)	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 at least 75% of process operating hours	Y	
63.1572(c)(4)	Determine and record hourly and daily average of all recorded readings	Y	
63.1572(c)(5)	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)	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)(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.	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	

IV. Source Specific Applicable Requirements

Table IV – D1
Source-Specific Applicable Requirements
S-1004 CATALYTIC REFORMER

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(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(f)(2)	Submittal of requested change in the applicability of an emission standard	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(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring 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 Permit	**PERMIT CONDITIONS**		
18794, Part 1	1. Total throughput of Naphtha through Catalytic Reformer shall not exceed the following limits: a. 12,739 KB/Year (34.9 KB/D annual average) b. 39.8 KB/Day (maximum)	Y	
18794, Part 2	2. The following monthly records shall be maintained in a District-approved log for at least 5 years for S-1004 and shall be made available for District inspection upon request. [Basis: Regulation 1-441] a. Daily Maximum Naphtha throughput in KB/D b. Daily Average Naphtha throughput in KB/D	Y	

Table IV – D2
Source-Specific Applicable Requirements
S-1006 CRUDE UNIT

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
815, Part1	The Crude Unit throughput shall not exceed 135,000 barrels per day (any single day) of crude feed. [Basis: Cumulative Increase, toxics, offsets]	Y	
815, Part 2	The Owner/Operator shall maintain a log of daily crude unit throughput. This data shall be available to the District upon request. A report shall be submitted to the District on a monthly basis. [Basis: Banked POC credits]	Y	

Table IV – D3
Source-Specific Applicable Requirements
S-1007 AKYLATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
10574, Part 12	TheOwner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1014 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]	Y	
10574, Part 51	The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels per day (Basis: BACT, Cumulative Increase)	Y	
10574, Part 52	The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emissions from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)	Y	

IV. Source Specific Applicable Requirements

Table IV – D3
Source-Specific Applicable Requirements
S-1007 AKYLATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
18043, Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: Cumulative Increase, Toxics]	Y	

IV. Source Specific Applicable Requirements

Table IV – D4
Source-Specific Applicable Requirements
S-1010 HYDROGEN PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
15512, Part 1	The Owner/Operator shall route the precursor organic compounds from the deaerator vents associated with the operation of S-1010 Hydrogen Plant downstream to the S-40 and/or S-41 boilers at all times in which the source is in operation. [Basis: RACT]	Y	

Table IV – D5
Source-Specific Applicable Requirements
S-1012 DIMERSOL UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
18043, Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: Cumulative Increase, Toxics]	Y	

IV. Source Specific Applicable Requirements

Table IV – D6
Source-Specific Applicable Requirements
S-1014 VIRGIN LIGHT ENDS SPLITTER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
10574, Part 12	TheOwner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1014 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]	Y	
18043, Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: Cumulative Increase, Toxics]	Y	

Table IV – D7
Source-Specific Applicable Requirements
S-1024 LIGHT CAT NAPHTHA HYDROFINER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
9296, Part E1	The total throughput of product at this source shall not exceed 24,000 barrels per day, as average over any calendar year. [Basis: Cumulative Increase, Toxics]	Y	
9296, Part E2	The total daily throughput of product at this source shall be recorded daily in a District approved log. This record shall be retained for a period of at least five years from the date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Recordkeeping]	Y	

IV. Source Specific Applicable Requirements

Table IV – D8
Source-Specific Applicable Requirements
S-211 AKYLATE DEBUTANIZER T-4302 (AT THE FORMER MTBE UNIT)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	**PERMIT CONDITIONS**		
9296, Part A4	The MTBE unit shall be completely shutdown except for the MTBE tower used to remove butane from the Alkylate as part of the MTBE Phaseout Project. <Basis: Banking Credits>	Y	
10574, Part 51	The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels per day (Basis: BACT, Cumulative Increase)	Y	
10574, Part 52	The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emissions from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)	Y	
18043, Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: Cumulative Increase, Toxics]	Y	

IV. Source Specific Applicable Requirements

Table IV - E1
Source-Specific Applicable Requirements
Diesel Dispensing
S-127 (FD-127)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/2002)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-604	Detemination of Applicability	Y	

Table IV - E2
Source-Specific Applicable Requirements
Gasoline Dispensing
S-165 (FD-165)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 7	**Organic Compounds, Gasoline Dispensing Facilities (11/06/2002)**		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-301.8	No-Coaxial Phase I Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-302.1	Requirements for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	

IV. Source Specific Applicable Requirements

Table IV - E2
Source-Specific Applicable Requirements
Gasoline Dispensing
S-165 (FD-165)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-In Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.11	ORVR Compatible	Y	
8-7-302.12	Liquid Retainment Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-313.1	Total Organic Compound Emissions From Nozzle/Fillpipe Interface, Storage Tank Vent Pipes, and Pressure-Related Fugitives Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-313.2	Total Organic Compound Emissions From Spillage Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-313.3	Total Organic Compound Emissions From Liquid Retain and Spitting Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-315	Pressure Vacuum Valve Requirements, Underground Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
8-7-601	Determination of Equipment in Compliance with Dynamic Backpressure Requirements and Vapor Tight	Y	
8-7-602	Determination of Phase I Vapor Recovery Efficiency	Y	

IV. Source Specific Applicable Requirements

Table IV - E2
Source-Specific Applicable Requirements
Gasoline Dispensing
S-165 (FD-165)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-603	Determination of Applicability	Y	
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements	Y	
8-7-605	Determination of Equipment in Compliance with Air to Liquid Volume Ratio (A/L) Requirements	Y	
8-7-606	Determination of Applicability	Y	

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 8 Rule 44 ·	**Organic Compounds, California Marine Vessel loading of organic compounds. (01/04/1989)**		
8-44-110	Exemption, Loading Events	Y	
8-44-111	Exemption, Marine Vessel Fueling	Y	
8-44-112	Exemption, Lightering	Y	
8-44-301	Marine Terminal Loading Limit	Y	

IV. Source Specific Applicable Requirements

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-301.1	Limited to 5.7 Grams 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, and	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	Recordkeeping	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	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	
NESHAPS Title 40 Part 63 Subpart Y	**NESHAPS for Marine Vessel Loading of Organic Liquids (09/19/1995)**		
40 CFR 63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y	
40 CFR 63.560(a)(2)	MACT does not apply to existing sources with emissions < 10 or 25 tons	Y	
40 CFR 63.560(a)(3)	Record keeping in 63.567(j)(4) and emission estimation in 63.565(l) apply to existing sources < 10 and 25 tons	Y	
40 CFR 63.560(b)	Applicability and Designation of Affected Source	Y	
40 CFR 63.560(b)(2)	RACT Standards do not Apply to Marine Loading Operations with Throughput Less Than 10 M and 200 M Barrels	Y	
40 CFR 63.565(l)	Emission estimation procedures	Y	
40 CFR 63.567(j)	Recordkeeping and Reporting Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years	Y	
BAAQMD Condition # 98			
Part 1	The Permit Holder shall provide the District with access to all crude lightering operations conducted in the San Francisco Bay and to be delivered to the Benicia Refinery for which Permit Holder, SeaRiver shipping, or any other affiliated company is responsible. Access to lightering operations shall be provided via the regularly scheduled water-taxi service. [Basis: Banked POC Credits]	Y	
Part 2	The Permit Holder shall provide a listing and voyage history for all ships delivering crude to the Benicia Refinery, calculate emissions using the emission factors and condition #6, provide pressure charts required in condition #8, and submit a report on a quarterly basis to the district. [Basis: Reporting, Compliance Verification]	Y	
Part 3	On a quarterly basis, the Permit Holder shall provide the district with copies of all U.S. Army Corporation of Engineers form 3925 for all material transferred by or for Permit Holder in the San Francisco Bay for delivery to the Benicia Refinery. [Basis: Reporting]	Y	
Part 4	On a quarterly basis, the Permit Holder shall provide verification of each controlled transfer. [Basis: Reporting]	Y	
Part 5	The Permit Holder shall limit all lightering emissions of crude delivered to the Benicia Refinery to 48 tons per year. [Basis: Banked POC Credits]	Y	
Part 6	The Permit Holder shall use the following emission factors: Controlled, lb/103 gal Ships- 0.04 Barges- 0.05, Uncontrolled, lb/mgal Ships- 0.80 Barges- 1.0 [Basis: Banked POC Credits]	Y	
Part 7	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: VOC Minimization]	Y	
Part 8	The pressure developed in the vessel tanks during lightering shall be continuously recorded while the vessel is in District waters. [Basis Banked	Y	

IV. Source Specific Applicable Requirements

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	POC credits]		
Part 9	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: VOC Minimization]	Y	
Part 10	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 uncontrolled emissions factors. If Permit Holder can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be allowed. [Basis: Cumulative Increase]	Y	
Part 11	A fugitive emissions maintenance program will be implemented on each lighter vessel used by Permit Holder. A complete survey of all above-deck equipment will be performed by Permit Holder once per quarter. [Basis: Cumulative Increase]	Y	
Part 12	Using an OVA, bubble test, or other procedure approved by the APCO, a survey of all in-service pressure relief valves on both vessels will be conducted 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 #6 shall be used to calculate emissions for the entire lightering event. If Permit Holder can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be used. All survey results shall be summarized in the report required by condition #2. [Basis: RACT]	Y	
Part 13	Vessels involved in controlled lightering events shall not perform an operations that 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	Y	

IV. Source Specific Applicable Requirements

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	circumstances of the incident will be logged, along with pertinent information such as tank volume, contents, and pressure before an after venting. The uncontrolled emission factors of condition #6 shall be used to calculate emissions for the entire loading operation. If Permit Holder can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be used. These emissions will be added to the emissions calculations and reported under condition #2. [Basis: Cumulative Increase]		
BAAQMD Condition # 1709			
Part 1	The Permit Holder shall limit the total non-methane hydrocarbon emissions due to gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]	Y	
Part 2	The organic emissions shall be calculated as the sum of the volume of gasoline loaded on each vessel multiplied by the appropriate emission factor listed below. [Basis: Cumulative Increase] **Uncontrolled lb voc/1000 gal** / **Uontrolled Emission Factor lb voc/1000 gal** Ship: 1.80 / 0.22 Barge: 3.40 / 0.30		
Part 3	The John Zink abatement system, A-29, shall be designed for at least 95%, by weight abatement efficiency or the VOC emissions shall not exceed 2 lb/1,000 bbl loaded (non-methane). [Basis: Cumulative Increase]	Y	
Part 4	The Permit Holder shall maintain a log of each mogas loading across the dock, listing the date, vessel loaded, relief valve set pressure, maximum pressure developed, loading interval (time), and amount and type of material loaded. [Basis: Cumulative Increase]	Y	
Part 5	The Permit Holder shall install a continuous emission monitor and recorder for mass VOC emission at A-29 discharge emission point, unless Permit Holder can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with condition 3. [Basis: Cumulative Increase]	Y	
Part 6	The Permit Holder shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]	Y	
Part 7	The Permit Holder shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	Any vessel loading that develops a pressure exceeding 80% of the lowest relief valve set pressure shall be considered uncontrolled. The uncontrolled emission factor in condition 2 shall be used to determine the emissions from such loading operations. If Permit Holder can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: Cumulative Increase]	Y	
Part 9	Permit Holder shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers and etc. [Basis: Cumulative Increase]	Y	
Part 10	Permit Holder shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers and etc. [Basis: Cumulative Increase]	Y	
Part 11	If the calculations required by condition 10 result in exceeding condition 1, the Permit Holder shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]	Y	
Part 12	The Permit Holder shall conduct a leak test on all vessel relief valves, hatch covers, gauging connections and any other potential leaking points for every vessel used in vapor- controlled loading more than twice per year. Testing shall be done on an average of every ten loads for each vessel. Testing shall be done during loading operations. If any emission point that reads greater than 10,000 ppm (as methane) as determined by a portable hydrocarbon analyzer (OVA), that load shall be considered uncontrolled. All subsequent loads by that vessel shall also be considered uncontrolled until a leak test result lower than 10,000 ppm is achieved. Leak test results shall be submitted to the BAAQMD with each quarterly report.	Y	

IV. Source Specific Applicable Requirements

Table IV - F1
Source-Specific Applicable Requirements
Marine Loading
S-129 (LD-129)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Concentrations shall be read I centimeter downstream of any discharge point. If Permit Holder can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: RACT, Cumulative Increase]		
Part 16	The Permit Holder shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - H1.1
Source-Specific Applicable Requirements
Wastewater Equalization Ponds
S-151 (WWT-2001)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
SIP · Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)**		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
BAAQMD Condition # 10574			
Part 1	Any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) shall be equipped with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, offsets, Toxics]a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure. b) equipped with a "canned" pump. c) equipped with a magnetically driven pump.	Y	
Part 4	All hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]	Y	
Part 5	Except as required by Condition number 4, all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic- packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]	Y	
Part 7	All flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic- based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [Basis: BACT, Offsets, Cumulative Increase, Toxics]	Y	
Part 10	The pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service shall be vented to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or ressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]	Y	

IV. Source Specific Applicable Requirements

Table IV - H1.1
Source-Specific Applicable Requirements
Wastewater Equalization Ponds
S-151 (WWT-2001)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	All process drains installed as part of the CFP shall be fitted with a "P", trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1014 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: Cumulative Increase]	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
61.355(k)(1)	Total Benzene Quantity (TBQ) Quantification	Y	

Table IV - H1.2
Source-Specific Applicable Requirements
Wastewater Retention Ponds
S-156 (WWT-2000)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-601	Wastewater Analysis for Critical Organic compounds	N	
SIP · Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)**		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
NESHAPS Title	**NESHAPS, Benzene Waste Operations (11/12/2002)**		

IV. Source Specific Applicable Requirements

Table IV - H1.2
Source-Specific Applicable Requirements
Wastewater Retention Ponds
S-156 (WWT-2000)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 Part 61 Subpart FF			
61.355(k)(1)	Total Benzene Quantity (TBQ) Quantification	Y	

IV. Source Specific Applicable Requirements

Table IV - H2.1
Source-Specific Applicable Requirements
Biotreaters
S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B, BIOX-2001, NO TAG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.348(a)	Standards: Treatment Processes	Y	
40 CFR 61.348(c)(1)	Standards: Treatment Processes	Y	
40 CFR 61.348(g)	Standards: Treatment Processes	Y	
40 CFR 61.354(a)	Monitoring of Operations; Treatment process and units	Y	
40 CFR 61.354(a)(2)	Monitoring of Operations; Treatment process and units--Continuously monitor process parameters	Y	
40 CFR 61.354(b)	Monitoring of Operations	Y	
40 CFR 61.354(b)(2)	Inlet benzene monitored monthly	Y	
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(i)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	

IV. Source Specific Applicable Requirements

Table IV - H2.2
Source-Specific Applicable Requirements
Biotreaters
S-214, S-215, S-245 (TK-2065, TK-2064, No Tag)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.348(a)	Standards: Treatment Processes	Y	
40 CFR 61.348(c)(1)	Standards: Treatment Processes	Y	
40 CFR 61.348(g)	Standards: Treatment Processes	Y	
40 CFR 61.354(a)	Monitoring of Operations; Treatment process and units	Y	
40 CFR 61.354(a)(2)	Monitoring of Operations; Treatment process and units--Continuously monitor process parameters	Y	
40 CFR 61.354(b)	Monitoring of Operations	Y	
40 CFR 61.354(b)(2)	Inlet benzene monitored monthly	Y	
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(i)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	

IV. Source Specific Applicable Requirements

Table IV - H3
Source-Specific Applicable Requirements
Sewer Pipeline
S-161 (SEW-2001)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	N	
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	
8-8-308	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.	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	1/1/2006
8-8-313	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; comply with 8-8-313.1 or 8-8-313.2 for uncontrolled sources	N	
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option	N	1/1/2006
8-8-314	New Wastewater Collection System Components at Petroleum Refineries ; equip new components with water seal or equivalent control	N	
8-8-402	Wastewater Inspection and Maintenance Plans at Petroleum Refineries	N	
8-8-402.1	Wastewater Inspection and Maintenance Plans at Petroleum Refineries : ID all components and submit to BAAQMD	N	10/1/2005
8-8-402.2	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; complete initial inspection of components	N	10/1/2005
8-8-402.3	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; implement 8-8-313.2 Inspection and Maintenance Plan	N	1/1/2006
8-8-402.4	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; semi-annual inspections of controlled equipment	N	1/1/2006
8-8-402.5	Wastewater Inspection and Maintenance Plans at Petroleum Refineries ; keep records per 8-8-505	N	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.1	Records for Wastewater Collection System Components at Petroleum Refineries	N	

IV. Source Specific Applicable Requirements

Table IV - H3
Source-Specific Applicable Requirements
Sewer Pipeline
S-161 (SEW-2001)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-505.2	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.3	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.4	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	**Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)**		
8-8-112	Exemption, Wastewater Critical OC Concentration or Temperature	Y	
8-8-502	Wastewater Critical OC Concentration and/or Temperature Records	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
8-8-603	Inspection Procedures	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/4/2003)**		
40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
40 CFR 61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
40 CFR 61.342(e)(2)(i)	Standards: General; 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene.	Y	
40 CFR 61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity per 61.355(k)	Y	
40 CFR 61.356(b)	Waste Stream records	Y	
40 CFR 61.356(b)(4)	Waste Stream records; records for streams controlled under 61.342(e)	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.1
Source-Specific Applicable Requirements
CPS Units
S-188 (VARIOUS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per second (300 gal/min), must be equipped with:	Y	
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-302.6	Inspect petroleum refinery control equipment (fixed covers, access doors, and other openings) initially and semi-annually. Must be vapor-tight (<500ppm).	N	
8-8-303	Gauging and Sampling Devices	Y	
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	
SIP · Regulation 8 · Rule 8	**Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)**		
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR	Applicability: Exempt Waste	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.1
Source-Specific Applicable Requirements
CPS Units
S-188 (VARIOUS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.340(c)			
40 CFR 61.340(d)	Exemption when routed to fuel gas system	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 4882			
Part 1	For sources S-188 and S-189, the Oil/Water/Sediment Separator (S-188)and the Induced Static Flotation Cell (S-189) shall be vented to the existing flare (S-18) at all times. [Basis: Cumulative Increase]	Y	
Part 2	S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [Basis: Cumulative Increase]	Y	

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per second (300 gal/min), must be equipped with:	Y	
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	N	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-302.6	Inspect petroleum refinery control equipment (fixed covers, access doors, and other openings) initially and semi-annually. Must be vapor-tight (<500ppm).	N	
8-8-303	Gauging and Sampling Devices	Y	
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	
SIP · Regulation 8 · Rule 8	**Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)**		
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.347(a)	Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
40 CFR 61.347(a)(1)	Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control	Y	
40 CFR 61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; Fixed roof--No openings	Y	
40 CFR 61.347(a)(1)(ii)	Closed-vent systems are subject to 61.349.	Y	
40 CFR 61.347(b)	Cover seals, access hatches , and other openings shall be checked visually initially and quarterly thereafter to ensure no cracks, gaps occur between the cover and wall and that access hatches are closed and gasketed	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.347(c)	except for delay or repair, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts repairs shall be made AS SOON AS POSSIBLE, but not later than 15 calendar days after	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.640(o)(1)	NSPS Subpart QQQ are only required to comply with Subpart CC provisions		
BAAQMD Condition # 13319			
Part 1	The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method [Basis: BAAQMD 2-2-112]	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403	Y	
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	The total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 shall not exceed 3000 gallons per minute. [Basis: Cumulative Increase]	Y	
Part 10	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	These sources shall be abated by two 700 lb (minimum) carbon canisters in series(A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 15	The total combined non-methane hydrocarbons (NMHC) emissionsemitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	
Part 16	NMHC shall be determined from the continuously monitored flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 17	To demonstrate compliance with Condition 15, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
Part 18	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.1
Source-Specific Applicable Requirements
ISF Units
S-189 (VARIOUS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	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 gal/min unless is equipped with:	Y	
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 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	
SIP · Regulation 8 · Rule 8	**Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)**		
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	
40 CFR 61.340(d)	Exemption when routed to fuel gas system	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(o)(1)	verlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.1
Source-Specific Applicable Requirements
ISF Units
S-189 (VARIOUS)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 4882			
Part 1	For sources S-188 and S-189, the Oil/Water/Sediment Separator (S-188)and the Induced Static Flotation Cell (S-189) shall be vented to the existing flare (S-18) at all times. [Basis: Cumulative Increase]	Y	
Part 2	S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.2
Source-Specific Applicable Requirements
ISF Units
S-197, S-198 (2007, 2057)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	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 gal/min unless is equipped with:	Y	
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 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	
SIP · Regulation 8 · Rule 8	**Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)**		
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.347(a)	Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
40 CFR 61.347(a)(1)	Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control	Y	
40 CFR 61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; Fixed roof--No openings	Y	
40 CFR 61.347(a)(1)(ii)	Closed-vent systems are subject to 61.349.	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.2
Source-Specific Applicable Requirements
ISF Units
S-197, S-198 (2007, 2057)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.347(b)	Cover seals, access hatches , and other openings shall be checked visually initially and quarterly thereafter to ensure no cracks, gaps occur between the cover and wall and that access hatches are closed and gasketed	Y	
40 CFR 61.347(c)	except for delay or repair, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts repairs shall be made AS SOON AS POSSIBLE, but not later than 15 calendar days after	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.2
Source-Specific Applicable Requirements
ISF Units
S-197, S-198 (2007, 2057)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 13319			
Part 1	The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method [Basis: BAAQMD 2-2-112]	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, byvolume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.2
Source-Specific Applicable Requirements
ISF Units
S-197, S-198 (2007, 2057)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	The total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 shall not exceed 3000 gallons per minute. [Basis: Cumulative Increase]	Y	
Part 10	A flow indicator or equivalent device shall be installed on the vent streamto the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]	Y	
Part 11	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	These sources shall be abated by two 700 lb (minimum) carbon canisters in series(A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 15	The total combined non-methane hydrocarbons (NMHC) emissionsemitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - H5.2
Source-Specific Applicable Requirements
ISF Units
S-197, S-198 (2007, 2057)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 16	NMHC shall be determined from the continuously monitored flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
Part 17	To demonstrate compliance with Condition 15, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] f. Daily NMHC emission rate in pounds per day. g. Daily NMHC emission rate, as averaged over one month in pounds per day. h. Daily flow rate and outlet NMHC concentration. i. Carbon canister changeout date. j. Total volume of gas recorded between carbon canister changeout.	Y	
Part 18	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - H6
Source-Specific Applicable Requirements
BIOX Sludge Thickener
S-192 (TK-2052)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501.1	Records	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
BAAQMD Regulation 8 Rule 5	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
8-8-113	Exemption, Secondary Wastewater Tretment Processes and Stormwater Sewer Systems	Y	

Table IV - H7
Source-Specific Applicable Requirements
Wastewater Biox Sludge
S-217, S-218, S-219
(TK-791NSD, TK-424SD, TK-131SD)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
BAAQMD Regulation 8 Rule 5	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
8-8-113	Exemption, Secondary Wastewater Tretment Processes and Stormwater Sewer Systems	Y	

IV. Source-Specific Applicable Requirments

Table IV- X
Fugitive Sources: Applicable Requirements

Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-9 Flare Gas Rec. System	X								X
S-51 HCU Feed Filter R-410A	X		X (1)		X (1)				X
S-52 HCU Feed Filter R-410B	X		X (1)		X (1)				X
S-129 Crude/Product Dock	X								
S-188 OMS OWS	X			X (3)			Exempt		
S-189 OMS ISF	X			X (3)			Exempt		
S-201 WWT Vacuum Truck Load.	X			X (3)			X		
S-202 WWT Vacuum Truck Load.	X			X (3)			X		
S-209 Methanol/Ethanol Truck Unload.	X								
S-211 Alkylate Debutanizer at MTBE Unit	X	COND 18043 1 10574 52	X (1)		X (1)				X
S-231 Aqueous NH3 Drum									
S-1002 Diesel Hydrofiner	X		X (1)		X (1)				X
S-1003 Hydrocracker (HCU)	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X

IV. Source Specific Applicable Requirements

Table IV- X
Fugitive Sources: Applicable Requirements

Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-1004 Powerformer	X								X
S-1005 Catalytic Feed Hydro.	X		X (1)		X (1)				X
S-1006 Pipestill Unit	X		X (1)		X (1)				X
S-1007 Alkylation Unit	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12, 52 COND 18043 1	X (1)		X (1)				X
S-1008 Gasoline Hydrofiner	X		X (1)		X (1)				X
S-1009 Jet Fuel Hydrofiner	X		X (1)		X (1)				X
S-1010 Hydrogen Plant	X								
S-1011 Heavy Cat Naphtha Hydrofiner	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1012 Dimersol Unit	X	COND 18043 1	X		X				
S-1014 Cat Light Ends	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12 COND 18043 1	X (1)		X (1)				X

IV. Source Specific Applicable Requirements

Table IV- X
Fugitive Sources: Applicable Requirements

Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-1020 Heartcut Tower (MRU), except for Heartcut Stream	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1021 Heartcut Sat Unit (MRU) except for Heartcut Stream	X	COND 10574 1, 4, 5, 7, 8 10, 11, 12	X (1)		X (1)				X
S-1022 Cat Ref T90 Tower MRU	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1023 Cat Nap T90 Tower MRU	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1024 Lt Cat Nap Hydrotreater MRU	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1026 C5/C6 Splitter (MRU)	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
Heartcut Stream (MRU) (2)	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)	X (1)		X (1)(4)	X

IV. Source Specific Applicable Requirements

Table IV- X
Fugitive Sources: Applicable Requirements

Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-1030 Combustion Turbine Generator (CoGen Phase I)	X		X		X				
S-1031 Heat Recovery Steam Generator (CoGen Phase I)	X		X		X				
S-1032 Combustion Turbine Generator (CoGen Phase II)	X		X		X				
S-1033 Heat Recovery Steam Generator (CoGen Phase II)	X		X		X				
Fluid Coker	X								X
Vapor Recovery Compressors A-46/47 (C-1704 A/B) at S-227	X		X		X				
Vapor Recovery Compressors A-40/41 (C-1702 A/B) at S-65, S-69, S-70 (B5574), S-71 (B5574)	X		X		X				
Compressor C-101C at S-1006	X		X		X				
Fluid Catalytic Cracking Unit	X		X (1)		X (1)				X
Fuel Gas Scrubbing, Blending, Compression, MEA	X								
Sulfur Gas Unit (FG piping)	X								
Sour Water System	X								

IV. Source Specific Applicable Requirements

Table IV- X
Fugitive Sources: Applicable Requirements

Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
Tail Gas Unit (FG piping)	X								
Utilities (FG piping)	X								
Virgin Light Ends, excluding S-1002, S-1008, and S-1009	X		X (1)		X (1)				X
Wastewater Treatment Plant	X			X (3)			X		
Railcar Loading/Unloading Rack S-1027	X								
Truck Loading/Unloading Rack	X								
OM-12 Area – Light Ends	X								
OM-13 Areas:									
Intermediate Feed Storage	X								X
Distillate Storage	X								X
Pipestill Feed	X								X
Slop System	X								X
COKER Feed Tank VRS	X								
OM-14/Dock Areas:									
Dock and DVRU	X								
Crude Field	X								X
Product Tanks	X								X

IV. Source Specific Applicable Requirements

Table IV- X
Fugitive Sources: Applicable Requirements

Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
Product Pump Pad	X								X
Sulfur and Ammonia									
Day Tanks	X								
OM-15 Areas:									
Mogas Component Tanks	X								X
Blending System	X								X
PFMR/MTBE Feed	X								X
Cat C5 VRS	X								

Notes:
(1) Per 63.640 (p), equipment leaks that are also subject to Part 60 (NSPS) and Part 61 (NESHAPS) are only required to comply with Part 63 (MACT).
(2) Part 61 Subparts J and V apply only to the fugitive components on the MRU Heartcut Stream located between the Heartcut Tower and the Heartcut Saturation Unit, upstream of the recycle stream (>10 weight. % benzene).
(3) Per 63.640(o)(1), equipment that is also subject to Part 60 (NSPS) Subpart QQQ is only required to comply with Part 63 (MACT) wastewater provisions (Part 61 Subpart FF).
(4) This table lists only those permit conditions related to fugitive sources or fugitive monitoring. See source-specific Table IV's for all other permit conditions for each source..

IV. Source Specific Applicable Requirements

Table IV –I
Source-specific Applicable
Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 18	**Organic Compounds, Equipment Leaks (09/15/2004)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-301	General	Y	
8-18-302	Valves	N	
8-18-303	Pumps and Compressors	N	
8-18-304	Connections	N	
8-18-304.1	Connection Leak Discovered by Operator	Y	
8-18-304.2	Connection Leak Discovered by APCO	N	
8-18-304.3	Connections Subject to 8-18-306	N	
8-18-305	Pressure Relief Devices	Y	
8-18-306	Non-repairable Equipment	N	
8-18-306.1	Non-repairable Equipment	N	
8-18-306.2	Non-repairable Equipment	N	
8-18-306.3	Non-Repairable Connections Count as Two Valves	N	
8-18-306.4	Requirements for Valves with Major Leaks (>=10,000 ppm)	N	
8-18-307	Liquid Leak	Y	
8-18-401	Inspection	N	
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternative Inspection Schedule	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	N	
8-18-503	Reports	N	
8-18-601	Analysis of Samples	Y	
8-18-602	Inspection Procedure	Y	
8-18-603	Determination of Control Efficiency	N	
8-18-604	Determination of Mass Emissions	N	
BAAQMD Regulation 8 · Rule 28	**Organic Compounds, Episodic Releases from Pressure Relief Devices (03/18/1998)**		
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	

IV. Source Specific Applicable Requirements

Table IV –I
Source-specific Applicable Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	N	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-403	Records	N	
8-28-404	Identification	N	
8-28-405	Prevention Measures Procedures	N	
8-28-602	Determination of Control Efficiency	N	
SIP · Regulation 8 · Rule 28	**Organic Compounds, Episodic Releases from Pressure Relief Devices (06/1/1994)**		
8-28-301	Pressure Relief Valve--Alternative Comment	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	
8-28-602	Determination of Control Efficiency	Y	
BAAQMD · Regulation 11 Rule 7·	**Hazardous Pollutants, Benzene (5/15/1985)**		
11-7-213	Leak Definition	N	
11-7-301	General	N	
11-7-305	Sampling Connecting Systems	N	
11-7-306	Open-Ended Valves or Lines	N	
11-7-306.1	Open-Ended Valves or Lines	N	
11-7-306.2	Open-Ended Valves or Lines	N	
11-7-307.1	Valves	N	
11-7-310	Delay of Repairs	N	
11-7-310.1	Delay of Repairs	N	
11-7-310.4	Delay of Repairs	N	
11-7-313	Alternative Compliance for Valves-Skip Period Detection and Repair	N	
11-7-401	Inspection	N	
11-7-403	Semiannual Reports	N	
11-7-501	Monitoring	N	
11-7-502.1.4	Records	N	
11-7-502.1.5	Records	N	
11-7-601	Measurement for Benzene	N	
NSPS Title 40 Part 60 Subpart VV	**NSPS Subpart VV for Equipment Leaks of VOC in SOCMI (12/14/2000)**		
40 CFR 60.480	Applicability and Designation of Affected Facility	Y	

IV. Source Specific Applicable Requirements

Table IV –I
Source-specific Applicable Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.482-1	Standards: General	Y	
40 CFR 60.482-10	Standards: Closed vent systems and control devices	Y	
40 CFR 60.482-2	Standards: Pumps in light liquid service	Y	
40 CFR 60.482-3	Standards: Compressors	Y	
40 CFR 60.482-4	Standards: Pressure relief devices in gas/vapor service	Y	
40 CFR 60.482-5	Standards: Sampling connection systems	Y	
40 CFR 60.482-6	Standards: Open-ended valves or lines	Y	
40 CFR 60.482-7(a)	Standards	Y	
40 CFR 60.482-7(b)	Standards	Y	
40 CFR 60.482-7(c)(1)	Standards	Y	
40 CFR 60.482-7(d)(1)	Standards	Y	
40 CFR 60.482-7(e)	Standards	Y	
40 CFR 60.482-7(f)	Standards	Y	
40 CFR 60.482-7(h)	Standards	Y	
40 CFR 60.482-8	Standards: Pumps & Values in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges & Other Connectors	Y	
40 CFR 60.482-9(a)	Standards	Y	
40 CFR 60.482-9(b)	Standards	Y	
40 CFR 60.482-9(c)	Standards	Y	
40 CFR 60.482-9(d)	Standards	Y	
40 CFR 60.483-1	Alternative Standards for Valves-Allowable Percentage of Valves Leaking	Y	
40 CFR 60.483-2	Alternative Standards for valves - skip period leak detection and repair	Y	
40 CFR 60.485	Test Methods and Procedures	Y	
40 CFR 60.486	Recordkeeping Requirements	Y	
40 CFR 60.487(a)	Reporting	Y	

IV. Source Specific Applicable Requirements

Table IV –I
Source-specific Applicable Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.487(b)	Reporting	Y	
40 CFR 60.487(c)	Reporting	Y	
40 CFR 60.487(d)	Reporting	Y	
NSPS Title 40 Part 60 Subpart GGG	**NSPS GGG for Equipment Leaks of VOC in Petroleum Refineries (10/17/2000)**		
40 CFR 60.590	Applicability and Designation of Affected Facility	Y	
40 CFR 60.592	Standards	Y	
40 CFR 60.593	Exceptions	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.345 (a)(1)(i)	Standards: Containers-no detectable emissions	Y	
40 CFR 61.343(a)(1)(i)(A)	Standards: Tanks; Fixed Roof--No detectable emissions >/= 500 ppmv; annual inspection	Y	
40 CFR 61.347(a)(1)(i)(A)	Standards: oil-water separators--No detectable emissions >500 ppm; annual inspection	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual inspection	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(p)	Applicability and Designation of Affected Source--Overlap of Subpart CC for equipment leaks	Y	
40 CFR 63.648	Equipment Leak Standards	Y	
40 CFR 63.648(a)	Equipment Leak Standards--Existing sources comply with 40 CFR 60 Subpart VV and 63.648(b). New source comply with 40 CFR 63 Subpart H	Y	
40 CFR 63.648(a)(1)	Equipment Leak Standards--Existing sources: 40 CFR 60 Subpart VV applies only to organic HAP service.	Y	
40 CFR 63.648(f)	Equipment Leak Standards--Reciprocating pumps in light liquid service	Y	
40 CFR 63.648(g)	Equipment Leak Standards--Compressors in hydrogen service	Y	
40 CFR 63.648(h)	Equipment Leak Standards--Record retention	Y	
40 CFR 63.654(d)	Reporting and Recordkeeping Requirements for Equipment Leaks	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	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	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	requirements		
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
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	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Emission Control System		
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability		
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR) 63.120(b)(8	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 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	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status ements--Reporting--storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3) (iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	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	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
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	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
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	
8-5-322.5	Secondary seal requirements; Gap for welded external floating roof tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology-- External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 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	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof equirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66 (TK-1711, TK-1714)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	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	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
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	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 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	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof equirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

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

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Notification		
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	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	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	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	seals, lids - Gap requirements		
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
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	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology-- External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 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	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof equirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

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

IV. Source Specific Applicable Requirements

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	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	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal	Y	

IV. Source Specific Applicable Requirements

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	requirements		
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
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	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
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	
8-5-322.5	Secondary seal requirements; Gap for welded external floating roof tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	

IV. Source Specific Applicable Requirements

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	

IV. Source Specific Applicable Requirements

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 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	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	

IV. Source Specific Applicable Requirements

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof equirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	

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Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

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Source-Specific Applicable Requirements
External Floating Roof Tank
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
BAAQMD Condition # 10633			
Part 1	The total daily throughput of product from S-97 shall be recorded in a District approved log. This record shall be retained for a period of at least five years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: 2-6-503]	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

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

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	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	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
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	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Subpart K	**NSPS Subpart K for Petroleum Liquids Storage Vessels Constructed between `73-`78 (10/17/2000)**		
40 CFR 60.110(a)	Applicability and Designation of Affected Facility; Affected facility	Y	
40 CFR 60.110(c)(2)	Applicability and Designation of Affected Facility-->65,000 gal after 6/11/1973 and before 5/19/1978.	Y	
40 CFR 60.112(a)(1)	Standard for Volatile Organic Compounds (VOC)-Petroleum Liquid storage-Floating roof or vapor recovery TVP greater than or equal to 1.5 psia and less than or equal to 11.1 psia.	Y	
40 CFR 60.113(a)	Monitoring of Operations--Petroleum liquid storage records.	Y	
40 CFR 60.113(b)	Monitoring of Operations--Determination of TVP by API method	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 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	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(n)(5)	Applicability and Designation of Affected Source Overlap for Storage Vessels—Existing Group 1 also subject to K or Ka only	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	subject to this		
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof equirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	

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Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J9
Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
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	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.3.1	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.3	Primary seal requirements; Metallic shoe type seal requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seal requirements Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seal requirements Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters;	Y	

IV. Source Specific Applicable Requirements

Table IV - J9
Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Concentration of <10,000 ppm as methane after degassing		
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NSPS title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (10/15/2003)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
40 CFR 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	
40 CFR 60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
40 CFR 60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J9
Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
40 CFR 60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
40 CFR 60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
40 CFR 60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
40 CFR 60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
40 CFR 60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
40 CFR 60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
40 CFR 60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
40 CFR 60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
40 CFR 60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
40 CFR 60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
40 CFR 60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	

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Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
(i)(B)			
40 CFR 60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
40 CFR 60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
40 CFR 60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
40 CFR 60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
40 CFR 60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
40 CFR 60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y	
40 CFR 60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
40 CFR 60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report	Y	
40 CFR 60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y	
40 CFR 60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y	
40 CFR 60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y	
40 CFR 60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y	

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Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y	
40 CFR 60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y	
40 CFR 60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y	
40 CFR 60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 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	
40 CFR 63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(i)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J9
Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207 (TK-1740)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(vi)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
BAAQMD Condition # 10797			
Part 1	The Owner/Operator shall limit the total release of emissions from this S-207 storage tankto no more than 4.62 tons of POC emissions in anyrolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
Part 4	The Owner/Operator shall store only mogas/components in the S207 External Roof Storage Tank. [Basis: Cumulative Increase, BACT, Offsets, Toxics]	Y	
Part 6	The Owner.Operator shall limit the total throughput of mogas/components to no more that 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
Part 7	The Owner/Operator shall record the total daily throughput of mogas/component withdrawn from S-207 Storage Tank in a Districtapproved log. This record shall be retained for a period of at least five years fromdate of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J10
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof	Y	

IV. Source Specific Applicable Requirements

Table IV - J10
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	requirements		
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	

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Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (06/23/2003)**		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(b)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof	Y	
40 CFR 63.119(b)(1)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof – (roof must float on liquid)	Y	
40 CFR 63.119(b)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof; floating exception	Y	
40 CFR 63.119(b)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof; floating exception	Y	
40 CFR 63.119(b)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof; floating exception	Y	
40 CFR 63.119(b)(2)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof; operations when not floating	Y	
40 CFR 63.119(b)(3)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof seals	Y	
40 CFR 63.119(b)(3)(i)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof;liquid mounted primary seal option	Y	
40 CFR 63.119(b)(3)(ii)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof metallic shoe primary seal option	Y	
40 CFR 63.119(b)(4)	Storage Vessel Provisions . Reference Control Technology-- Internal floating roof automatic bleeder vents	Y	
40 CFR 63.120(a)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal floating roof (FR)	Y	
40 CFR 63.120(a)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR inspections	Y	
40 CFR 63.120(a)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR single seal inspections	Y	

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Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(a)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR single seal annual visual inspection	Y	
40 CFR 63.120(a)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR single seal visual inspection [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e).]	Y	
40 CFR 63.120(a)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR double seal inspection	Y	
40 CFR 63.120(a)(3)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR double seal annual visual inspection ds	Y	
40 CFR 63.120(a)(3)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR double seal visual inspection [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e).]	Y	
40 CFR 63.120(a)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR repair of defects identified during annual visual inspection	Y	
40 CFR 63.120(a)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR inspections 30 day notification	Y	
40 CFR 63.120(a)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR Notification for unplanned inspections	Y	
40 CFR 63.120(a)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR--Repairs of defects identified in the 5 yr/10 yr inspections [does not apply to gaskets, slotted membranes, or sleeve seal for Group 1 MACT tanks per 40 CFR 63.646(e)]	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(c)	Storage Vessel Provisions . Recordkeeping--Group 1 Internal floating roof	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	

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Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof equirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(2)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	

IV. Source Specific Applicable Requirements

Table IV - J10
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(g)(2)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(ii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J11
Source-Specific Applicable Requirements
Internal Floating Roof Tank with Secondary Seal and Solid Guide Poles; MACT Exempt
S-89 (TK-1761)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.1	Requirements for Internal Floating roofs; Seals installed on or before 2/1/1993	Y	
8-5-305.1.1	Requirements for Internal Floating roofs; Seals installed on or before 2/1/1993; Liquid mounted primary seal	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	

IV. Source Specific Applicable Requirements

Table IV - J11
Source-Specific Applicable Requirements
Internal Floating Roof Tank with Secondary Seal and Solid Guide Poles; MACT Exempt
S-89 (TK-1761)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	

IV. Source Specific Applicable Requirements

Table IV - J11
Source-Specific Applicable Requirements
Internal Floating Roof Tank with Secondary Seal and Solid Guide Poles; MACT Exempt
S-89 (TK-1761)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals and Slotted Guidepoles; MACT Exempt
S-88, S-87, S-90, S-91 (TK-1760, TK-1759, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	

IV. Source Specific Applicable Requirements

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals and Slotted Guidepoles; MACT Exempt
S-88, S-87, S-90, S-91 (TK-1760, TK-1759, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers,	Y	

IV. Source Specific Applicable Requirements

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals and Slotted Guidepoles; MACT Exempt
S-88, S-87, S-90, S-91 (TK-1760, TK-1759, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	seals, lids		
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements—gap between well and roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	

IV. Source Specific Applicable Requirements

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals and Slotted Guidepoles; MACT Exempt
S-88, S-87, S-90, S-91 (TK-1760, TK-1759, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

Table IV - J13
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

Table IV - J13
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Floating roof tanks - continuous and quick filling, emptying and refilling		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J13
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NSPS title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (10/15/2003)**		

IV. Source Specific Applicable Requirements

Table IV - J13
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
40 CFR 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	
40 CFR 60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
40 CFR 60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
40 CFR 60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
40 CFR 60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
40 CFR 60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
40 CFR 60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y	
40 CFR 60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
40 CFR 60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
40 CFR 60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
40 CFR 60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
40 CFR 60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
40 CFR 60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y	
40 CFR 60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	

IV. Source Specific Applicable Requirements

Table IV - J13
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	
40 CFR 60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
40 CFR 60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	
40 CFR 60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
40 CFR 60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
40 CFR 60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
40 CFR 60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		

IV. Source Specific Applicable Requirements

Table IV - J13
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 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	
40 CFR 63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
BAAQMD Condition # 9296			
Part C1	For the S-210 Methanol/ethanol Tank: The total throughput of product from S-210 shall not exceed 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y	
Part C2	Total POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, shall not exceed 0.87 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y	
Part C5	The S-210 internal floating roof tank shall only store methanol/ethanol unless written authorization is received from the APCO allowing the use of another product in advance of any use of such product. [Basis: Cumulative Increase, Offsets, Toxics]	Y	
Part C6	The total monthly throughput of methanol/ethanol withdrawn from the S-210 Storage Tank Shall be recorded in a District approved log. This record shall be retained for a period of at least 5 years from date of entry. It shall be kept on site and made available to District staff upon request. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J14
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-55 (TK-2801)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J14
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-55 (TK-2801)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	

Table IV - J15
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks with Vapor Recovery to Fuel Gas
S-65, S-69 (TK-1713, TK-1717)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD ·	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		

IV. Source Specific Applicable Requirements

Table IV - J15
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks with Vapor Recovery to Fuel Gas
S-65, S-69 (TK-1713, TK-1717)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Regulation 8 Rule 5			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-124 (TK-1735)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	

IV. Source Specific Applicable Requirements

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-124 (TK-1735)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassingrequirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

IV. Source Specific Applicable Requirements

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-124 (TK-1735)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	

Table IV - J17
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; with Permit Conditions
S-133 (TK-2712)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	

IV. Source Specific Applicable Requirements

Table IV - J17
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; with Permit Conditions
S-133 (TK-2712)

Applicable Requirement	Regulation Title or Description of	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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J17
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; with Permit Conditions
S-133 (TK-2712)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
BAAQMD Condition # 7559			
Part 1	The VOC emissions emitted from the spent acid tank (S- 133) shall be routed to the flare gas recovery header (S-9). [Basis: Cumulative Increase]		

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-227 (TK-1741)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-227 (TK-1741)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NSPS title 40 Part 60 Subpart KB	**NSPS Subpart Kb for Tanks (10/15/2003)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
40 CFR 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
40 CFR 60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
40 CFR 60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for tanks >= 75 cu m and maximum TVP >= 76.6 kPa	Y	
40 CFR 60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option	Y	
40 CFR 60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
40 CFR 60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
40 CFR 60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-227 (TK-1741)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
40 CFR 60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	
40 CFR 60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(e)(2)(i)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products by API method	Y	
40 CFR 60.116b(e)(2)(ii)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products other than API method	Y	
40 CFR 60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
BAAQMD Condition # 10574			

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-227 (TK-1741)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) shall be equipped with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics] a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure. b) equipped with a "canned" pump. c) equipped with a magnetically driven pump.	Y	
Part 4	All hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]	Y	
Part 5	Except as required by Condition number 4, all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic- packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]	Y	
Part 7	All flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic- based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [Basis: BACT, Offsets, Cumulative Increase, Toxics]	Y	
Part 8	All new hydrocarbon centrifugal compressors installed as part of the CFP shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All reciprocating compressors installed in hydrocarbon service as part of the CFP shall be vented to a control device having at least a 95%; control efficiency.. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR 60, Subpart GGG. [BACT, Offsets, Cumulative Increase, Toxics, NSPS]	Y	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas
S-227 (TK-1741)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 10	The pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service shall be vented to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]	Y	
Part 11	All process drains installed as part of the CFP shall be fitted with a "P", trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1014 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: Cumulative Increase]	Y	
Part 42	The S-227 Pentane Storage Tank shall be fixed roof tanks connected to the A-46/A-47 vapor recovery system. NSPS requirements of 40 CFR, Subpart Kb will be applied to this tank. [Basis: Cumulative Increase, Offsets, Toxics]	Y	
Part 43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]	Y	
Part 44	The Permit Holder shall not store any material in S-227 storage tank, other than the materials specified in this application for the tanks, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a: a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Permit Holder shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]		
Part 45	All POC emissions from tank cleaning, degassing, or product changeout shall be vented to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]		

IV. Source Specific Applicable Requirements

Table IV - J19
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks
S-93, S-94, S-95, S-96, S-99, S-100, S-106, S-107, S-109, S-111, S-116, S-118, S-119, S-140, S-145
(TK-1772, TK-1773, TK-1774, TK-1775, TK-1778, TK-1779, TK-1797, TK-1798, TK-1802, TK-1804, TK-1809, TK-1811, TK-1812, TK-1204, TK-1201)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J20
Source-Specific Applicable Requirements
Exempt Fixed Roof Tank; MACT Exempt
S-98 (TK-1777)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V; with Permit Conditions
S-108 (TK-1801)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	

IV. Source Specific Applicable Requirements

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V; with Permit Conditions
S-108 (TK-1801)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of Vapor Recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill		
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V; with Permit Conditions
S-108 (TK-1801)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
BAAQMD Condition # 76003			
Part 1	The rate of filling the tank is to be limited to a value such that organic emissions are under 4 lb/hr [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J22
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-110 (TK-1803)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	

IV. Source Specific Applicable Requirements

Table IV - J22
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-110 (TK-1803)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

Table IV - J23
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V
S-113, S-114, S-115, S-117, S-120, S-122, S-123, S-234, S-235 (TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794, NO TAG, NO TAG)

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

Table IV - J23
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V
S-113, S-114, S-115, S-117, S-120, S-122, S-123, S-234, S-235 (TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794, NO TAG, NO TAG)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

Table IV - J24
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-143 (TK-1034)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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	

IV. Source Specific Applicable Requirements

Table IV - J24
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-143 (TK-1034)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD Condition # 13045			
Part 1	The throughput of corrosion inhibitor at the Corrosion Inhibitor Tank (S-143) shall not exceed 15,000 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 2	To demonstrate compliance with Condition #1, the throughput of corrosion inhibitor at S-143 shall be recorded monthly in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J26
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-239 (TK-1918)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.1	Requirements for Submerged Fill Pipes; Top fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation,	Y	

IV. Source Specific Applicable Requirements

Table IV - J26
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-239 (TK-1918)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	maintenance, operation		
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD Condition # 18422			
Part 1	Total liquid throughput at source S-239 shall not exceed 102,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)	Y	
Part 2	S-239 shall be equipped with a submerged fill pipe. (Basis: Regulation 8-5-301)	Y	
Part 3	In order to demonstrate compliance with the condition 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)	Y	

Table IV - J27
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

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

IV. Source Specific Applicable Requirements

Table IV - J27
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

IV. Source Specific Applicable Requirements

Table IV - J27
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD Condition # 9584			
Part 1	The throughput at the storage tank S-158 shall not exceed 10,000 gallons of perchloroethylene during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 2	To demonstrate compliance with Condition #1, monthly throughput record of perchloroethylene at S-158 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made.[Basis: cumulative increase]	Y	

Table IV - J28
Source-Specific Applicable Requirements
Storage Drum with 10 Kgal Capacity
S-1013 (D-2720)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	

IV. Source Specific Applicable Requirements

Table IV - J28
Source-Specific Applicable Requirements
Storage Drum with 10 Kgal Capacity
S-1013 (D-2720)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-	Y	

IV. Source Specific Applicable Requirements

Table IV - J28
Source-Specific Applicable Requirements
Storage Drum with 10 Kgal Capacity
S-1013 (D-2720)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	306		
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

IV. Source Specific Applicable Requirements

Table IV - J29
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks < 10 Kgals
S-121, S-185 (D-807, NO TAG)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

Table IV - J30
Source-Specific Applicable Requirements
Exempt Fixed Roof Tank with MACT Recordkeeping
S-230 (TK-4460)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (10/15/2003)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
40 CFR 60.110b(b)	Applicability and Designation of Affected Facility; 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	

IV. Source Specific Applicable Requirements

Table IV - J30
Source-Specific Applicable Requirements
Exempt Fixed Roof Tank with MACT Recordkeeping
S-230 (TK-4460)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specificallydoes not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J31.1
Source-Specific Applicable Requirements
Exempt Fixed Roof Caustic Tanks
S-132, S-134 (TK-2711, TK-2713)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	

Table IV - J31.2
Source-Specific Applicable Requirements
Exempt Non-Organic Tanks
S-231, S-236 (TK-1943, TK-1901)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
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	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.3.1	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded external floating roof tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (08/11/1989)**		
40 CFR 60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
40 CFR 60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
40 CFR 60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
40 CFR 60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
40 CFR 60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
40 CFR 60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
40 CFR 60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
40 CFR 60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
40 CFR 60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
40 CFR 60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
40 CFR 60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
40 CFR 60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
40 CFR 60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
40 CFR 60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
40 CFR 60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
40 CFR 60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
40 CFR 60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y	
40 CFR 60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
40 CFR 60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y	
40 CFR 60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y	
40 CFR 60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y	
40 CFR 60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y	
40 CFR 60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y	
40 CFR 60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y	
40 CFR 60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y	
40 CFR 60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 40 CFR 60.112b(a)(2)	Y	
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
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	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.3.1	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

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Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (08/11/1989)**		
40 CFR 60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
40 CFR 60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
40 CFR 60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
40 CFR 60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
40 CFR 60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
40 CFR 60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
40 CFR 60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
40 CFR 60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
40 CFR 60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
40 CFR 60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
40 CFR 60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
40 CFR 60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
40 CFR 60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
40 CFR 60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
40 CFR 60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
40 CFR 60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
40 CFR 60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y	
40 CFR 60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
40 CFR 60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report	Y	
40 CFR 60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y	
40 CFR 60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y	

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Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y	
40 CFR 60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y	
40 CFR 60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y	
40 CFR 60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y	
40 CFR 60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y	
40 CFR 60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 40 CFR 60.112b(a)(2)	Y	
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap of this subpart CC with other regulations for wastewater: a Group 1 wastewater stream managed in a piece of equipment that is also subject to the provisions of 40 CFR part 60, subpart QQQ is required to comply only with this subpart [CC].	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-81, S-104
(TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	

IV. Source Specific Applicable Requirements

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
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	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	

IV. Source Specific Applicable Requirements

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (08/11/1989)**		
40 CFR 60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
40 CFR 60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
40 CFR 60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
40 CFR 60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
40 CFR 60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
40 CFR 60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y	
40 CFR 60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
40 CFR 60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
40 CFR 60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
40 CFR 60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
40 CFR 60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
40 CFR	Testing and Procedures; Internal floating roof visual inspection	Y	

IV. Source Specific Applicable Requirements

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.113b(a)(1)	before		
40 CFR 60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
40 CFR 60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	
40 CFR 60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
40 CFR 60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	
40 CFR 60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
40 CFR 60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
40 CFR 60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
40 CFR 60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR	Monitoring of Operations; Waste storage tanks-Vapor pressure	Y	

IV. Source Specific Applicable Requirements

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.116b(f)(2)	tests		
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 40 CFR 60.112b(a)(1)	Y	
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

IV. Source Specific Applicable Requirements

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	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	

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition # 11888			
Part 1	The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, byvolume, dry, corrected to 3%. oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be noless than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be noof A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: Monitoring]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) andshall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the tempature requirement in Condition 4 . (Basis: Regulation 1-521)	Y	

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 9	This source shall be abated by two 700 lb (minimum) carbon canisters in series(A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: RACT]	Y	
Part 11	NMHC shall be determined from the flow ratesand NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-34 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby services, A-37 carbon shall be replaced weekly until the continuous VOC monitoring A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
Part 12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. Carbon canister changeout date. d. Total volume of gas recorded between carbon canister changeout. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (TK-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor services on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	A flow indicator or equivalent device shall be installed on the vent streamto the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control DevicePerformance Demonstration--Performance tests	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	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	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condtion # 11879			
Part 1	The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined bythe source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. (Basis: Temperature Monitoring)	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (°F) andshall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	This source shall be abated by two 700 lb (minimum) carbon canisters in series(A-37) and/or the A-57 Thermal oxidizer in at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-34 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
Part 12	To demonstrate compliance with Condition 10, the following recordsshall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration.. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
Part13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	

IV. Source Specific Applicable Requirements

Table IV - J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
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S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 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	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
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S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

IV. Source Specific Applicable Requirements

Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (10/15/2003)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
40 CFR 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	
40 CFR 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
40 CFR 60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
40 CFR 60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
40 CFR 60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
40 CFR 60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
40 CFR 60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
40 CFR 60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	

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Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
40 CFR 60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	

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Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	

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Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	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	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition # 11880			
Part1	S-193, S-196, S-205 and S-206: This source shall be abated by two 1200 lb (minimum: carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
Part 2	The combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 3	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]	Y	

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Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-193, S-196 (TK-2027, TK-2077)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 4	To demonstrate compliance with Condition (2), the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. a) Daily NMHC emission rate in pounds per day. b) Daily NMHC emission rate, as averaged over one month, in pounds per day. c) Daily flow rate and outlet NMHC concentration. d) Carbon canister changeout date d) Total volume of gas recorded between carbon canister changeout. [Basis: Cumulative Increase]	Y	
Part 5	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 7	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J39
Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	

IV. Source Specific Applicable Requirements

Table IV - J39
Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	

IV. Source Specific Applicable Requirements

Table IV - J39
Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	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	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
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Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 1	S-199 and S-200: The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined bythe source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) in series and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	

IV. Source Specific Applicable Requirements

Table IV - J39
Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
Part 12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. Total volume of gas recorded between carbon canister changeout.	Y	
Part 13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J39
Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (10/07/1998)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 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; Notice to the APCO	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (10/15/2003)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
40 CFR 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	
40 CFR 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
40 CFR 60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
40 CFR 60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
40 CFR 60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
40 CFR 60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
40 CFR 60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	
40 CFR 60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
40 CFR 60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (12/04/2003)**		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	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	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #11880	**For S-193, S-196, S-205 and S-206:**		
Part 1	This source shall be abated by two 1200 lb (minimum: carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
Part 2	The combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 3	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]	Y	
Part 4	To demonstrate compliance with Condition (2), the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase] a) Daily NMHC emission rate in pounds per day. b) Daily NMHC emission rate, as averaged over one month, in pounds per day. c) Daily flow rate and outlet NMHC concentration. d) Carbon canister changeout date e) Total volume of gas recorded between carbon canister changeout.	Y	

IV. Source Specific Applicable Requirements

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device
-
S-205, S-206 (TK-2026, TK-2076)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 5	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 7	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used.[Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J41
Source-Specific Applicable Requirements
Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas
S-208 (D-920)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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 (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

IV. Source Specific Applicable Requirements

Table IV - J41
Source-Specific Applicable Requirements
Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas
S-208 (D-920)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (10/15/2003)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (11/12/2002)**		
40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	
40 CFR 61.340(d)	Exemption when routed to fuel gas system	Y	
Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
BAAQMD Condition #8771			
Part 3	The coker feed drum (S-208) shall be abated by the flare gas recovery system including the flares (S-18 & S-19) at all times. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J41
Source-Specific Applicable Requirements
Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas
S-208 (D-920)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 4	The maximum material throughput at S-208 shall not exceed 29 million gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 5	To demonstrate compliance with Condition #4, the monthly material throughput at S-208 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – J42
Source-Specific Applicable Requirements
EXEMPT LPG PRESSURIZED SPHERES
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR PRESSURE TANKS**		
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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; blanket gas; true vapor pressure;	Y	

IV. Source Specific Applicable Requirements

Table IV – J42
Source-Specific Applicable Requirements
EXEMPT LPG PRESSURIZED SPHERES
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Retain 24 months		
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Gas Tight Determination	Y	

IV. Source Specific Applicable Requirements

Table IV – J43
Source-Specific Applicable Requirements
EXEMPT LPG REFRIGERATED TANK WITH VAPOR RECOVERY
TK-1726

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effecti ve Date
BAAQMD · Regulation 8, Rule 5	**Organic Compounds, Storage of Organic Liquids (11/27/02) REQUIREMENTS FOR PRESSURE TANKS**		
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; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
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	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	

IV. Source Specific Applicable Requirements

Table IV – J43
Source-Specific Applicable Requirements
EXEMPT LPG REFRIGERATED TANK WITH VAPOR RECOVERY
TK-1726

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; blanket gas; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Gas Tight Determination	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-107	Combination of Emissions	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 5	**Storage of Organic Liquids (11/27/02)**		
8-5-306	Requirements for Approved Emission Control Systems	Y	
BAAQMD Regulation 8, Rule 8	**Wastewater Collection and Separation Systems (9/15/2004)**		
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min)	Y	
8-8-302.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95 percent by weight.	N	
8-8-307	Air Flotation Unit	Y	
8-8-307.2	Combined collection and destruction efficiency of 70% by weight	N	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-602	Determination of Emissions	N	
SIP · Regulation 8 · Rule 8	**Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)**		
8-8-302.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95 percent by weight.	Y	
8-8-307.2	Combined collection and destruction efficiency of 70% by weight	Y	
8-8-602	Determination of Emissions	Y	
40 CFR 60 Subpart A	**NSPS Subpart A General Provisions**		
40 CFR 60.13(i)	Alternative Monitoring Provisions	Y	
40 CFR 60 Subpart J	**NSPS Subpart J for Petroleum Refineries (08/17/1989)**		
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	Definitions	Y	
40 CFR 60.104	Standards for Sulfur Oxides	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)(4)	H2S monitors	Y	
40 CFR 61 Subpart FF	**National Emission Standards for Benzene Waste Operations (12/04/2003)**		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.343(a)(1)	Standards: Tanks; 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	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.347(a)	Standards: Oil-water separators	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.347(a)(1)	Standards: Oil-water separators; Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control device	Y	
61.347(a)(1)(ii)	Standards: Oil-water separators; Closed-vent systems are subject to 61.349	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Safety valve provisions	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; Enclosed combustion device requirements	Y	
61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
61.349(b)	Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(2)	Performance tests	Y	
61.349(e)	Administrator may request performance tests	Y	
61.349(f)	Visually inspect for leaks quarterly	Y	
61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line; Visually inspect carseal/valve positions monthly	Y	
61.355(i)	Performance test procedures	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(d)	Engineering design documentation for all control equipment	Y	
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	
61.356(f)(1)	Recordkeeping Requirements: certification of performance level	Y	
61.356(f)(3)	Requirements for performance tests	Y	
61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through 61.347	Y	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(j)(1)	Recordkeeping Requirements: dates of startup and shutdown	Y	
61.356(j)(2)	Recordkeeping Requirements: description of parameters	Y	
61.356(j)(3)	Recordkeeping Requirements: periods when closed vent system and control device are not operating	Y	
61.356(j)(3)(i)	Recordkeeping Requirements; Bypass Line Controls	Y	
61.356(j)(4)	Recordkeeping Requirements: Control device operation--Thermal vapor incinerator	Y	
40 CFR 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/23/2003)**		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	Group 1 wastewater streams shall comply with 40 CFR 61.340 – 61.355, Subpart FF	Y	
63.647(c)	Owners/operators required under subpart FF to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

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Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #11879	**Permit Conditions for S-150 Sour Wastewater Tank**		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The Owner/Operator shall equip A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the oxidation temperature in A-57. (Basis: Temperature Monitoring)	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 12	To demonstrate compliance with Part 10, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
BAAQMD Condition #11882	**Permit Conditions for S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056**		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	

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Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	
Part 10	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 12	To demonstrate compliance with Part 10, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	

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Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #11888	**Permit Conditions for S-131 Wastewater Sludge Tank TK-2069**		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 12	To demonstrate compliance with Part 10, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
BAAQMD Condition #13319	**Permit Conditions for** **S-194 Oil/Water/Sediment Separator 2006** **S-195 Oil/Water/Sediment Separator 2056** **S-197 Induced Static Flotation Cell 2007** **S-198 Induced Static Flotation Cell 2057**		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	

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Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	
Part 15	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A57, WWTP THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 17	To demonstrate compliance with Part 15, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

98	S-129 Marine bulk Plant
125, 126	S-1 and S-2 Claus Units
254	S-173 Process Furnace F-902
639	S-174 and S-175 Lime Slurry Tanks
815	S-1006 Crude Unit
1709	S-129 Marine Bulk Plant LD-129
3253	S-176 Salt Tank TK-2325
4882	S-188 and S-189 Oil/Water Separators
7559	S-133 Spent Acid Tank
8348	S-1007 Alkylation unit (superceded by condition 10574)
8564	S-57 Floating Foor Tank TK-1701
8771	S-208 Coker Feed Drum D-920
9296	S-40, S-158, S-209, S-210, S-211 and S-1024
9584	S-158 Fixed Roof Tank
9897	S-11 Activated Carbon Bin TK-2061
10574	Clean Fuels Project, S-21, 22, 220, 227, 1020, 1021, 1022, 1023, 1024 1026
10633	S-97 Floating Roof Tank TK-1776
10797	S-207 Floating Roof Tank
11030	S-3 and S-4 Furnaces
11879	S-150 Sour Wastewater Tank
11880	S-193, S-196, S-205, S-206 Wastewater Tanks
11882	S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056
11883	S-201 Truck Loading Operation
11884	S-202 Truck Loading Operation
11888	S-131 Wastewater Sludge Tank TK-2069

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12727	S-232 and S-233, ESP Fines System
13045	S-143 Fixed Roof Tank
13319	S-194, S-195, S-197, S-198 Oil/Water/Sediment Separators and Flotation Units
14318	S-23 Process Oil Furnace F-401
15512	S-1010 Hydrogen Plant
16027	S-237, SG-1031 Boiler
16386	S-37 Waste Heat Boiler SG-702 and S-45 Gas Turbine GT-702
17835	S-1027 Light Ends Rail Rack
18043	S-1007, S-1014, S-1012 Alkylation, VLE Splitter and Dimersol Units
18422	S-239 TK-1918
18744	S-243 Emergency Generator
18748	S-240, S-241, S-242 Emergency Generators
18794	S-1004 Catalytic Reformer
19177	Cogen Project S-1030, 1031, 1032, 1033
19329	Alternative Compliance Plan S-7, 20 – 26, 30 – 35, 40, 41, 173 and 220.
19466	Title V Monitoring
20762	Low Vapor Pressure Storage Tanks
20806	Flare Monitoring
21233	Regulation 9-10 NOx Box
22156	ESP Monitoring
76003	S-108, TK-1801

Any condition that is preceded by an asterisk is not federally enforceable.

Condition 98
For S-129 Marine Bulk Plant (LD-129)

1. The Owner/Operator shall provide the District with access to all crude lightering operations conducted in the San Francisco Bay and to be delivered to the Benicia

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Refinery for which Owner/Operator, Sea River shipping, or any other affiliated company is responsible. Access to lightering operations shall be provided via the regularly scheduled Water-taxi service. [Basis: Banked POC credits]

2. The Owner/Operator shall provide a listing and voyage history for all ships delivering crude to the Benicia Refinery, calculate emissions using the emission factors and part #6, provide pressure charts required in part #8, and submit a report on a quarterly basis to the district. [Basis: Reporting, Compliance Verification]
3. On a quarterly basis, the Owner/Operator shall provide the district with copies of all U.S. Army corporation of engineers form 3925 for all material transferred by or for the Owner/Operator in the San Francisco Bay for delivery to the Benicia Refinery. [Basis: Reporting]
4. On a quarterly basis, the Owner/Operator shall provide verification of each controlled transfer. [Basis: Reporting]
5. The Owner/Operator shall limit all lightering emissions of crude delivered to the Benicia Refinery to 48 tons per year. [Basis: Banked POC Credits]
6. The Owner/Operator shall use the following emission factors:

   Controlled, lb/1000 gal
   Ships- 0.04
   Barges-0.05

   Uncontrolled, lb/103gal
   Ships-0.80
   Barges-1.0.

   [Basis: Banked POC Credits]
7. The Owner/Operator shall limit the highest pressure developed during the lightering to no more than 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: VOC Minimization]
8. The Owner/Operator shall continuously record the pressure developed in the vessel tanks during lightering while the vessel is in District waters. [Basis: Banked POC credits]
9. The Owner/Operator shall test the tanks of all vessels involved in a lightering operation using the controlled emission factors 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: VOC]
10. During controlled lightering operations, the Owner/Operator shall isolate both vessels' inert gas systems 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 uncontrolled emissions factors. If Owner/Operator can demonstrate that emissions were

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partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be allowed. [Basis: Cumulative Increase]

11. A fugitive emissions maintenance program will be implemented on each lighter vessel used by the Owner/Operator. A complete survey of all above-deck equipment will be performed by Owner/Operator once per quarter. [Basis: Cumulative Increase]
12. Using an OVA, bubble test, or other procedure approved by the APCO, the Owner/Operator shall conduct a 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 500 ppmv, as methane. All readings in excess of 500 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 part #6 shall be used to calculate emissions for the entire lightering event. If Owner/Operator can demonstrate that emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled may be used. All survey results shall be summarized in the report required by part #2.[Basis: RACT]
13. For vessels involved in controlled lightering events, the Owner/Operator shall not perform any operations that result in venting crude oil cargo vapors in District waters. These operations include as examples: 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 part #6 shall be used to calculate emissions for the entire loading operation. If Owner/Operator can demonstrate that emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled may be used. These emissions will be added to the emissions calculations and reported under part #2. [Basis: Cumulative Increase]

Condition# 125
For Source S-1 Claus (F-1301A, Natural Gas)

1. The Owner/Operator shall provide reasonable access to 24 hour sulfur production data whenever the APCO or his/her designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: Banked POC credits]
2. The Owner/Operator shall operate and maintain the best available H2S monitoring system on the Tail Gas Clean-up Unit exhaust stack. [Basis: 9-1-313.2, odors]
3. Except during upset conditions, the Owner/Operator shall not open the motor operated valve (MOV-001), which allows Tail Gas from S-1 to flow to the incinerator (F-1302A; A-14), when either of the sour gas feed valves (F002, F004) to source (S-1) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill

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this requirement. [Basis: Regulation 9-1-313.2, odors]

4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-64 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-313.2, odors]

Condition# 126
For Source S-2 Claus (F-1301B, Natural Gas]

1. The Owner/Operator shall provide reasonable access to 24 hour sulfur production data whenever the APCO or his/her designated representative performs compliance determinations on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: BAAQMD 9-1-313.2]
2. The Owner/Operator shall operate and maintain the best available H2S monitoring system on the Tail Gas Clean-up Unit exhaust stack. [Basis: 9-1-313.2, odors]
3. Except during upset conditions, the Owner/Operator shall not open the motor operated valve (MOV-003), that allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15) when either of the sour gas feed valves (F052, F054) to source S-2 are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: Regulation 9-1-313.2]
4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-2 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-64 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-313.2]

Condition 254
For S-173 Process Furnace (F-902)

1. The Owner/Operator shall maintain the NOx emissions from S-173 at or below 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]
2. The Owner/Operator shall operate the Furnace F-1060 for no more than 30 days per year. [Basis: Cumulative Increase]
3. The Owner/Operator shall conduct a District approved Source Test within 30 days after start-up and every six months thereafter to determine compliance with part #1. [Basis: Cumulative Increase]
4. Any "banking" application submitted by the Owner/Operator relative to this permit shall, at a minimum, include an analysis of the entire coker, specifically emissions associated with "running normal rates for longer periods." [Basis: Cumulative Increase]

Condition# 639
For Source S-174 and S-175

1. The Owner/Operator shall abate the visible emissions from the lime slurry tanks. [Basis: BAAQMD Regulation 1-301]

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2. In order to demonstrate compliance with BAAQMD Regulations 6-301, 6-310 and 6-311, the Owner/Operator shall monitor and record the visible emissions from S-174 and S-175 Lime Slurry Tanks on an annual basis. The visible emissions test shall be conducted during the entire lime offloading operation and the highest visible emissions during the period shall be recorded. If any visible emission exceeds Ringelmann No. 1, the Owner/Operator shall take corrective action to comply with Part 1 of this condition. (Basis: Regulation 6-301, 6-310 and 6-311)

Condition# 815
For Source S-1006

1. The Crude Unit throughput shall not exceed 135,000 barrels per day (any single day) of crude feed. [Basis: Cumulative Increase, toxics, offsets]
2. The Owner/Operator shall maintain a log of daily crude unit throughput. This data shall be available to the District upon request. A report shall be submitted to the District on a monthly basis. [Basis: Banked POC credits]

Condition# 1709
For Source S-129 Marine Bulk Plant (LD-129)

1. The Owner/Operator shall limit the total non-methane hydrocarbon emissions due to gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]
2. The Owner/Operator shall calculate the organic emissions as the sum of the volume of gasoline loaded on each vessel multiplied by the appropriate emission factor listed below. [Basis: Cumulative Increase]

EMISSION FACTOR	UNCONTROLLED LB VOC/1000 GAL	CONTROLLED LB VOC/1000 GAL
Ship	1.80	0.22
Barge	3.40	0.30

3. The Owner/Operator shall design the John Zink abatement system, A-29, for at least 95%, by weight, abatement efficiency or the VOC emissions shall not exceed 2 lb/1,000 bbl loaded (non-methane). [Basis: Cumulative Increase]
4. The Owner/Operator shall maintain a log of each mogas loading across the dock, listing the date, vessel loaded, relief valve set pressure, maximum pressure developed, loading interval (time), and amount and type of material loaded. [Basis: Cumulative Increase]
5. The Owner/Operator shall install a continuous emission monitor and recorder for mass VOC emissions at A-29 discharge emission point, unless Owner/Operator can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with part 3. [Basis: Cumulative Increase
6. The Owner/Operator shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]
7. The Owner/Operator shall submit a quarterly report of daily loadings and emissions on a

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District approved format. [Basis: Cumulative Increase

8. Any vessel loading that develops a pressure exceeding 80% of the lowest relief valve set pressure shall be considered uncontrolled. The Owner/Operator shall use the uncontrolled emission factor in part 2 to determine the emissions from such loading operations. If the Owner/Operator can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: Cumulative Increase]
9. The Owner/Operator shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers, etc. [Basis: Cumulative Increase]
10. If the testing in part 9 demonstrates a leakage rate greater than 5% of the total volume, the Owner/Operator shall calculate the emissions for any leak exceeding 5% of the total volume using worst case assumptions, highest vapor pressure and saturated vapor space. The Owner/Operator shall then add the calculated emissions to the total used to determine compliance with part 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]
11. If the calculations required by part 10 result in exceeding part 1, the Owner/Operator shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]
12. The Owner/Operator shall conduct a leak test on all vessel relief valves, hatch covers, gauging connections and any other potential leaking points for every vessel used in vapor-controlled loading more than twice per year. Testing shall be done on an average of every ten loads for each vessel. Testing shall be done during loading operations. If any emission point that reads greater than 10,000 ppm (as methane) as determined by a portable hydrocarbon analyzer (OVA), that load shall be considered uncontrolled. All subsequent loads by that vessel shall also be considered uncontrolled until a leak test result lower than 10,000 ppm is achieved. Leak test results shall be submitted to the BAAQMD with each quarterly report. Concentrations shall be read 1 centimeter downstream of any discharge point. If Owner/Operator can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: RACT, Cumulative Increase]
13. Deleted. [Basis: Source test completed.] 14. Deleted. [Basis: The District approved source testing facility prior to permit issuance.]15. Deleted. [Basis: The Owner/Operator installed and operated the equipment prior to banking of any emission reduction credits.]
16. The Owner/Operator shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: Cumulative Increase]

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Condition# 3253
For Source S-176 Material Handling, Salt Tank (TK-2325)

1. If dry salt is added to tank No. 2325 (S-176), the Owner/Operator shall install a particulate control device to control any emissions from this source. [Basis: Cumulative Increase]

Condition# 4882
For Sources S-188 Oil/Water Separator and S-189 Oil/Water Separator

1. The Owner/Operator shall vent the emissions from the Oil/Water/Sediment Separator (S-188) and the Induced Static Flotation Cell (S-189) to the existing flare (S-18) at all times. [Basis: Cumulative Increase]
2. The Owner/Operator shall operate S-188 and S-189 within the the designed capacities (700 gallons per minute or less). [Basis: Cumulative Increase]

Condition# 7559
For Source S-133 (Spent Acid Tank)

1. The Owner/Operator shall route the VOC emissions emitted from the spent acid tank (S-133) to the flare gas recovery header (S-9). [Basis: Cumulative Increase]

Condition 8348
For S-1007 Alkylation Unit Permit condition 8348, Parts 1 through 4 superseded by Condition 10574.

1. Deleted.
2. Deleted.
3. Deleted.
4. Deleted.

Condition# 8564
For Source S-57 Floating Roof Tank

1. Deleted. S-57 no longer owned by Valero Refining Company. See Condition 22333 in B5574 permit.
2. Deleted. S-57 no longer owned by Valero Refining Company. See Condition 22333 in

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B5574 permit.

3. The following fugitive equipment, installed under Application #9817 to comply with 40 CFR 61, Subpart FF (Benzene Waste NESHAPS), shall be monitored, maintained, and repaired by the Owner/Operator in accordance with the NESHAPS [Basis: Cumulative Increase; Offsets]

97	valves
294	flanges
3	pumps

Condition# 8771
For Source S-208 Coker Feed Drum D-920

1. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]]
3. The Owner/Operator shall abate the coker feed drum (S-208) by the flare gas recovery system including the flares (S-18 & S-19) at all times. [Basis: Cumulative Increase]
4. The Owner/Operator shall limit the material throughput at S-208 to no more than 29 million gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
5. To demonstrate compliance with Part #4, the Owner/Operator shall record the monthly material throughput at S-208 in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 9296
For Sources S-40 Steam Boiler, S-158 Fixed Roof Tank, S-209 Methanol/Ethanol Railcar Unloading Facility, S-210 Floating Roof Tank, S-211 Alkylate Debutanizer (at former MTBE Unit) and S-1024 Light Cat Naphtha Hydrofiner

A1. Deleted. [Basis: Superceeded by BAAQMD Condition 18043]

A2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]

A3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]

A4. The MTBE unit shall be completely shutdown except for the MTBE tower used to remove butane from the Alkylate as part of the MTBE Phaseout Project. <Basis: Banking

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Credits>

S-209 Methanol/Ethanol Unloading Station

B1. The Owner/Operator shall only permit the transport trucks to travel on paved roads at all times inside of the facility. [Basis: Cumulative Increase]
B2. All deliveries of methanol/ethanol shall be from the transport trucks unless the Owner/Operator first receive prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]
B3. Deleted. [Basis: The Owner/Operator paved the unpaved road prior to the operation of the MTBE facility.]
B4. The Owner/Operator shall limt the total number of truck deliveries of methanol/ethanol at the facility to no more than 2920 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
B5. The Owner/Operator shall deliver the dispensed methanol/ethanol from the transport trucks to the S-210 methanol/ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]
B6. The Owner/Operator shall limit the total fugitive POC emissions from S-209 to no more than 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
B7. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
B8. Deleted. [Basis: Maximum leak concentrations are covered by Regulation 8, Rule 18.]
B9. The Owner/Operator shall record the total number of truck deliveries of methanol/ethanol weekly in a District approved log and totalized monthly. The Owner/Operator shall retain these records for a period of at least 5 years from date of entry. The log shall be kept on site and made available to District staff upon request. [Basis: Banked POC credits]

S-210 Methanol/ethanol Tank

C1. The Owner/Operator limit the total throughput of product from S-210 to no more than 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]
C2. The Owner/Operator shall limit thetotal POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, to no more than 0.87 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]
C3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
C4. Deleted. [Basis: Maximum leak concentration is covered by Regulation 8, Rule 18.]
C5. The Owner/Operator shall only store methanol/ethanol in the S-210 internal floating roof tank unless written authorization is received from the APCO allowing the use of another product in advance of any use of such product. [Basis: Cumulative Increase, Offsets, Toxics]

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C6. The Owner/Operator shall record the total monthly throughput of methanol/ethanol withdrawn from the S-210 Storage Tank in a District approved log. This record shall be retained for a period of at least 5 years from date of entry. The log shall be kept on site and made available to District staff upon request. [Basis: Cumulative Increase]

S-40 Steam Boiler

D1. The Owner/Operator shall equip the steam boiler (S-40) with Low NOx burners and flue gas recirculation. [Basis: BAAQMD Regulation 9-10, Offsets, Cumulative Increase]

D2. The Owner/Operator shall limit the NOx concentration from S-40 to no more than 30 ppmv, dry, corrected to 3 % oxygen, as averaged over any consecutive 12 month period. (Basis: Offsets)

D3. TheOwner/Operator shall limit the CO concentration to no more than 400 ppmv, dry, corrected to 3 % oxygen. [Basis: BAAQMD Regulation 9-10, Cumulative Increase]

D4. The Owner/Operator shall operate the scrubber system upstream of S-40 Boiler at an annualized daily averaged (calendar year) total reduced sulfur concentration at or below 51 ppm, by volume. [Basis: Offsets]

D5. Completed

D6. The Owner/Operator shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in part 4. These records shall be retained for a period of at least 5 years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: Banked POC credits]

D7. The Owner/Operator shall operate the the S-40 Utility package Boiler at a firing rate at or below 218 million Btu per hour. (Basis: Cumulative Increase, Toxics)

D8. Deleted. Basis: This part was not part of the NSR Authority to construct and was inadvertently left in this section. Furthermore, it is covered by BAAQMD Regulation 9-10-502.1.

D9. Deleted. Basis: This part was not part of the NSR Authority to construct and was inadvertently left in this section. Furthermore, it is covered by BAAQMD Regulation 9-10-502.2.

D10. Deleted. Basis: This part was not part of the NSR Authority to construct and was inadvertently left in this section. Furthermore, it is covered by BAAQMD Regulation 9-10-504.

D11. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

S-1024 Light Cat Naphtha Hydrofiner

E1. The total throughput of product at this source shall not exceed 24,000 barrels per day, as average over any calendar year. [Basis: Cumulative Increase, Toxics]

E2. The total daily throughput of product at this source shall be recorded daily in a District

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approved log. This record shall be retained for a period of at least five years from the date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Recordkeeping]

Condition# 9584
For Source S-158 Fixed Roof Storage Tank

1. The Owner/Operator shall limit the throughput at the storage tank S-158 to no more than 10,000 gallons of perchloroethylene during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
2. To demonstrate compliance with Part #1, the Owner/Operator shall maintain monthly throughput records of perchloroethylene at S-158 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: Cumulative Increase]

Condition# 9897
For Source S-11 Activated Carbon Bin TK-2061

1. The Owner/Operator shall limit the receipt of the activated carbon at the Activated Carbon Bin Tk-2061 (S-11) to no more than 292 tons during any rolling 12 consecutive month period.[Basis: Cumulative Increase]
2. To demonstrate compliance with Part #1, the Owner/Operator shall record the monthly receipt of the activated carbon, totaled on a yearly basis, at S-11 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 10574 For Sources S-21, S-22, S-220, S-227, S-1020, S-1021, S-1022, S-1023, S-1024, and S-1026

CLEAN FUELS PROJECT
APPLICATION 10392
APPLICATION 3782 Alkylation Production Project

PERMIT CONDITIONS

S-220 Hot Oil System
S-21 Hydrogen Reformer Furnace, F-301
S-22 Hydrogen Reformer Furnace, F-351
Refinery Fuel Gas System

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Source Test/Continuous Emission Monitors

For any source test or continuous emission monitor/recorder (CEM) required by any permit condition associated with the Clean Fuels Project (CFP), the following shall apply:

A. Completed

B. Completed

C. Completed

D. Completed

E. Completed

F. The Owner/Operator shall install, maintain, calibrate and operate each CEM in accordance with all applicable District regulations. For Part number 15, the Owner/Operator shall include a data logging device that averages the CEM concentration readings for the Refinery fuel gas over the 24-hour time period (calendar day). [Basis: BACT]

Recordkeeping and Monthly Reporting

G. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. The Owner/Operator shall retain all records for at least five 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 the following: [Basis: BACT]

Fuel usage type and amount for:
S-220 Hot Oil System
S-21 Hydrogen Reformer Furnace
S-22 Hydrogen Reformer Furnace

CEM data and CEM indicated excesses;
Fuel gas H2S concentration (24-hour Average);
Fuel gas total reduced sulfur Concentration (24-hour Average)
Fuel gas usage rates (cubic feet/day)
Fuel heat content, HHV [24-hour average]
Actual Firing Rate (Btu/month)
Miscellaneous

H. The Owner/Operator shall vent any process vessel depressurization gas to a control

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device with an overall capture and destruction efficiency of 95%, on a mass basis. [Basis: Cumulative Increase]

I. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

FUGITIVES

S-1020 Heartcut Tower
S-1021 Heartcut Saturation Unit
S-1022 Catalytic Reformer T90 Tower
S-1023 Catalytic Naphtha T90 Tower
S-1024 Light Catalytic Naphtha Hydrotreater
S-1026 C5/C6 Splitter
S-220 Hot Oil System
S-227 Storage Tank
Deleted. [Basis: S-228 Storage Tank was never installed.]
Deleted. [Basis: S-229 Storage Tank was never installed.]
S-1007 Alkylation Unit
S-1011 Heavy Catalytic Naphtha Hydrotreater
S-1014 Virgin Light Ends Unit
S-151 Waste Water Treatment Unit
S-1003 Hydrocracking Unit

1. The Owner/Operator shall equip any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics]
   a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure.
   b) equipped with a "canned" pump
   c) equipped with a magnetically driven pump
2. Deleted.
3. Deleted.
4. The Owner/Operator shall equip all hydrocarbon flow control valves installed as part of the Clean Fuels Project with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]
5. Except as required by Part number 4, the Owner/Operator shall equip all other hydrocarbon valves greater than 2 inches installed as part of the CFP withone of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]
6. Deleted. [Basis: Inspection frequency of valves covered by Regulation 8, Rule 18.]
7. The Owner/Operator shall equip all flanges installed in the piping systems as a result of

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the CFP with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. Deleted rest of condition. [Deletion Basis: Leak repair requirements are covered under Regulation 8, Rule 18.] [Basis: BACT, Offsets, Cumulative Increase, Toxics]

8. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of the CFP with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The Owner/Operator shall vent all reciprocating compressors installed in hydrocarbon service as part of the CFP to a control device having at least a 95% control efficiency. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR 60, Subpart GGG. [Basis: BACT, Offsets, Cumulative Increase, Toxics, NSPS]
9. Completed
10. The Owner/Operator shall equip the pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]
11. The Owner/Operator shall fit all process drains installed as part of the CFP with a "P" trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]
12. TheOwner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1014 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]

FUEL GAS SYSTEM

13. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than any of the following: (a) 100 ppmv H2S, averaged over a 24-hour calendar day and (b) 160 ppm H2S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS]
14. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]
15. The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21, S-22

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and S-220) [Basis: Monitoring and Records].

16. The Owner/Operator shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, the Owner/Operator shall report for the following S-220, S-21 and S-22:
    (a)the daily fuel consumption,
    (b) daily averaged H2S content of the refinery fuel gas
    (c) daily averaged total reduced sulfur content
    (d) quarterly daily averaged H2S content
    (e) quarterly daily averaged total reduced sulfur content
    (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]

COMBUSTION SOURCES

General Combustion

The following are general requirements for all new or modified combustion sources associated with the Clean Fuels Project:

17. The Owner/Operator shall only fire in all new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]
18. The Owner/Operator shall limit the total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP to no more than the following annual limits: <Basis: BACT, Cumulative Increase, Offsets> <Basis: SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888>

Pollutant	S-21, S-22 and S-220 Annual (tons)
NOx(1)	17.11 (S-220 only)
CO	134.904
SO2	59.358
PM10	26.981
POC	15.514

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Note 1. Deleted. [Basis: There is no NOx increase in emissions from the S-21 and S-22 Hydrogen Heaters.]

19. The Owner/Operator shall equip the three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Monitoring and records]
20. The Owner/Operator shall calculate and totalize NOx, CO, POC, SO2 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be:

    NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance
    CO: 0.0200 lb/MMBtu
    POC: 0.0023 lb/MMBtu
    SO2: 0.0069 lb/MMBtu
    PM10: 0.0040 lb/MMBtu

    The Owner/Operator shall retain the results on site for a period of at least five years and make them available to District staff upon request.
    [Basis: BACT, Cumulative Increase]

21. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S-21, S-22 and S-220) or the three abatement devices (A-43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]
22. For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24 hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]

S-220 Hot Oil System

23. Except during startup and shutdown, the Owner/Operator shall limit emissions of nitrogen oxides from the S-220 Hot Oil System to no more than 10 ppmv, dry, corrected to 3% oxygen, (0.0118 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, Offsets, Cumulative Increase]
24. For the S-220 Hot Oil System, the Owner/Operator shall limit the CO emissions to no more than 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MM Btu) averaged over 8

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hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]

25. The Owner/Operator shall abate S-220 at all times by A-45 Selective Catalytic Reduction System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]
26. Except during periods of startup and shutdown, the Owner/Operator shall limit ammonia emissions (ammonia slip) from the SCR unit (A-45) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. [Basis: BACT, Offsets, Cumulative Increase]
27. .For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]
28. Completed
29. The Owner/Operator shall limit the total combined heat input for S-220 to no more than 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]
30. The Owner/Operator shall limit the firing rate of the S-220 MRU Hot Oil Furnace to no more than 351 million Btu per hour (Maximum firing rate). (Basis: Cumulative Increase, Toxics)

S-21 Hydrogen Reformer Furnace, F-301
S-22 Hydrogen Reformer Furnace, F-351

31. For the S-21 and S-22 furnaces, the Owner/Operator shall limit the emissions of nitrogen oxides based on CEM data to no more than 60 ppmv, dry, corrected to 3% oxygen, (0.0708 lb/MMBtu) averaged over any consecutive 24 hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the Owner/Operator shall limit the emissions of nitrogen oxides to no more than 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]
32. For the S-21 and S-22 furnaces, the Owner/Operator shall limit emissions of CO to no more than 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]
33. The Owner/Operator shall equip Sources S-21 and S-22 with low NOx burners. The Owner/Operator shall operate the low NOx burners systems in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]
34. Not Implemented
35. Not Implemented
36. Completed
37. The Owner/Operator shall limit the total combined heat input for S-21 and S-22 to no

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more than 106 million therms (10.6 trillion Btus) in any 365 consecutive day period. [Basis: Cumulative Increase, Offsets]

38. The Owner/Operator shall limit the firing rate of the S-21 Hydrogen Reforming Furnace to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)
39. The Owner/Operator shall limit the firing rate of the S-22 Hydrogen Reforming Furnace to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)
40. Deleted. [Basis: The Owner/Operator has installed the continuous emission monitor for S-21 for NOx and O2.]
41. Deleted. [The Owner/Operator has installed the continuous emission monitor for S-22 for NOx and O2.]

TANKAGE

S-227 175,000 Barrel Fixed Roof Tank

42. The S-227 Pentane Storage Tank installed by the Owner/Operator shall be a fixed roof tank connected to the A-46/A-47 vapor recovery system. NSPS requirements of 40 CFR 60, Subpart Kb will be applied to this tank. [Basis: Cumulative Increase, Offsets, Toxics]
43. The Owner/Operator shall operate Tank S-227 with a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]
44. The Owner/Operator shall not store any material in S-227 storage tank, other than the materials specified in this application for the tank, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Owner/Operator shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]
45. The Owner/Operator shall vent all POC emissions from tank cleaning, degassing, or product changeout to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]

TOXICS

46. Completed. [Basis: The Owner/Operator has performed the necessary source tests for toxics.]

OFFSETS (DISTRICT EMISSIONS BANK)

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47. Completed. [Basis: The Owner/Operator has met their offset obligation for NOx, POC, SO2 and PM10.]

48. Completed. [Basis: The Owner/Operator has paved two heavily traveled roads in the Refinery to provide contemporaneous emissions reduction for PM10.]

49. Completed. . [Basis: The Owner/Operator has made the paved road wide enough to for vehicles to pass without excursion onto the unpaved shoulders.]

50. Deleted. [Basis: No longer required to monitor mass emissions from the S-21 and S-22 Hydrogen Furnaces through a condition due to required monitoring of furnaces under Regulation 9, Rule 10.]

51. The total daily throughput of alkylate from the Alkylation Unit (S-1007)shall not exceed 22,800 barrels. (Basis: BACT, Cumulative Increase)

52. The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emission from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)

Condition# 10633
For Source S-97 Floating Roof Tank (TK-1776)

1. The Owner/Operator shall record the total daily throughput of product from S-97 in a Districtapproved log. This record shall be retained for a period of at least five years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: 2-6-503]

Condition# 10797
For Source S-207, Floating Roof Tank

1. The Owner/Operator shall limit the total release of emissions from this S-207 storage tank to no more than 4.62 tons of POC emissions in any rolling 365 consecutive day period.:: [Basis: Cumulative Increase]

2. Deleted [Basis: MTBE Phaseout Application 2035]
3. Deleted. [Basis: The inspection and maintenace program for fugitive components are covered under Regulation 8, Rule 18.]

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4. The Owner/Operator shall store only mogas/components in the S207 External Roof Storage Tank. [Basis: Cumulative Increase, BACT, Offsets, Toxics]
5. Deleted. [Basis: MTBE Phaseout Application 2035]
6. The Owner.Operator shall limit the total throughput of mogas/components at S-207 to no more that 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
7. The Owner/Operator shall record the total daily throughput of mogas/components withdrawn from the S-207 Storage Tank in a District approved log. This record shall be retained for a period of at least five years from date of entry. The log shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]
8. Deleted. [Basis: MTBE Phaseout Application 2035]
9. Deleted. [Basis: MTBE Phaseout Application 2035]

Condition# 11030
For Sources S-3 and S-4 Furnaces

1. The Owner/Operator shall limit the start-up of the CO Furnaces (S-3 and S-4) to no more than 72 hours. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the shutdown of the CO Furnaces (S-3 and S-4) to no more than 120 hours. [Basis: Cumulative Increase]
3. When the Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 150 ppm, dry at 3% oxygen, based on an operating day average. [Basis: BARCT, Cumulative Increase]
4. To demonstrate compliance with Parts #1 and 2, the Owner/Operator shall maintain the start-up time and shutdown time of S-3 and S-4 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60months from the date on which a record is made. [Basis: Cumulative Increase]
5. Deleted. [Basis: The Owner/Operator has conducted the District approved source test on S-3 and S-4 to demonstrate compliance with Part #3. The Owner/Operator has provided the source test report to the District.]
6. Effective from May 31, 1995, the Owner/Operator shall abate the NOx emissions from the CO Furnaces (S-3 and S-4) at all times by the A-52 and/or A-53 Thermal DeNOx Systems. [Basis: Cumulative Increase]
7. The Owner/Operator shall limit the total consumption of refinery fuel gas plus CO at each source to no more than the following:
   S-3 CO Furnace: 46.3 million therms per year (Basis: Cumulative Increase)
   S-4 CO Furnace: 22.7 million therms per year (Basis: Cumulative Increase)

Condition# 11879
For Source S-150 Sour Wastewater Tank

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as

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determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)

2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)

3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)
5. The Owner/Operator shall equip A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the oxidation temperature in A-57. (Basis: Temperature Monitoring)
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable excursions]

8. Deleted. Source Test completed August 26, 2004.

9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]

10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]

11. The Owner/Operator shall determine NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured

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at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]

12. To demonstrate compliance with Part 10, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
    a. Daily NMHC emission rate in pounds per day.
    b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
    c. Daily flow rate and outlet NMHC concentration.
    d. Carbon canister changeout date.
    e. Total volume of gas recorded between carbon canister changeout.
13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]
15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

Condition# 11880
For Sources S-193, S-196, S-205, and S-206 Wastewater Tanks

1. The Owner/Operator shall abate this source using two 1200 lb (minimum) carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]
3. The Owner/Operator shall determine the NMHC flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total

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hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]

4. To demonstrate compliance with Part (2), the Owner/Operator 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 at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]
   a. Daily NMHC emission rate in pounds per day.
   b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
   c. Daily flow rate and outlet NMHC concentration.
   d. Carbon canister changeout date
   e. Total volume of gas recorded between carbon canister changeout.
5. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
6. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

7. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase

Condition# 11882
For Sources S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD Regulation 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD Regulation 2-2-112)
3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged

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over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)

5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable excursions.]
8. Deleted. Source Test completed August 26, 2004.
9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]
11. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase,]
12. To demonstrate compliance with Part 10, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
    a. Daily NMHC emission rate in pounds per day.
    b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
    c. Daily flow rate and outlet NMHC concentration.
    d. Carbon canister changeout date.
    e. Total volume of gas recorded between carbon canister changeout.
13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator,

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the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]

14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]

15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

Condition# 11883
For Source S-201 (Truck Loading Operation)

1. The Owner/Operator shall abate Source S-201 using a vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]
2. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

Condition# 11884
For Source S-202 (Truck Loading Operation)

1. The Owner/Operator shall abate S-202 using a vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]
2. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

Condition# 11888
For Source S-131 Wastewater Sludge Tank TK-2069

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)
3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer

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at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)

5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: Monitoring]
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. The Owner/Operator shall use this temperature monitor to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable excursions.]
8. Deleted. Source Test completed August 26, 2004.
9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: RACT]
11. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby services, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]
12. To demonstrate compliance with Part 10, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
    a. Daily NMHC emission rate in pounds per day.
    b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
    c. Daily flow rate and outlet NMHC concentration.
    d. Carbon canister changeout date.

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e. Total volume of gas recorded between carbon canister changeout.

13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor services on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]
15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase

Condition# 12727
For Sources S-232 ESP Fines Vacuum Conveying system
and S-233 ESP Fines Storage Bin]

1. The Owner/Operator shall limit the throughput of ESP fines at the Vacuum Conveying System (S-232) to no more than 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the throughput of ESP fines at the ESP Fines Storage Bin (S-233) to no more than 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
3. The Owner/Operator shall properly abate the operation of S-232 by the Vacuum Filter (A-54). [Basis: Cumulative Increase]
4. The Owner/Operator shall properly abate the operation of S-233 by the Bin Filter (A-55). [Basis: Cumulative Increase]
5. To demonstrate compliance with Parts #1 and 2, the Owner/Operator shall maintain the monthly throughput records of ESP fines at S-232 and S-233 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 13045
For Source S-143 Fixed Roof Tank

1. The Owner/Operator shall limit the throughput of corrosion inhibitor at the Corrosion Inhibitor Tank (S-143) to no more than 15,000 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]

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2. To demonstrate compliance with Part #1, the Owner/Operator shall record the throughput of corrosion inhibitor at S-143 monthly in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 13319
For Sources S-194 Oil/Water/Sediment Separator 2006
S-195 Oil/Water/Sediment Separator 2056
S-197 Induced Static Flotation Cell 2007
S-198 Induced Static Flotation Cell 2057

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)
3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)
5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable temperature excursions.]
8. Deleted. Source Test completed August 26, 2004.
9. The Owner/Operator shall limit the total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 to not exceed 3000 gallons per minute. [Basis: Cumulative Increase]
10. A Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment.

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[Basis: NSPS]

11. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
12. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
13. Deleted. [Basis: The Owner/Operator has replaced the API Separator (S-47) and two dissolved air flotation tanks (S-152 and S-153).]
14. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
15. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]
16. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]
17. To demonstrate compliance with Part 15, the Owner/Operator 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 at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
    a. Daily NMHC emission rate in pounds per day.
    b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
    c. Daily flow rate and outlet NMHC concentration.
    d. Carbon canister changeout date.
    e. Total volume of gas recorded between carbon canister changeout.
18. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

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Condition# 14318
For Source S-23 Process Oil Furnace

1. The Owner/Operator shall limit the emissions of NMHC from S-23 (Furnace F-401) to no more than 10 lb/day. [Basis: BACT]
2 The Owner/Operator shall limit the emission of NOx to no more than 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]
3. The Owner/Operator shall continuously monitor the NOx and oxygen in accordance with the Manual of Procedures. [Basis: Cumulative Increase]
4. Owner/Operator shall limit the firing of S-23 furnace to at or below 200 x million BTU/Hr (maximum firing rate) heat input for any one hour period and 185 x million BTU/Hr average for a 24 hour period based on the gross heating value of the fuel gas. This 24 hour period shall be midnight to midnight. [Basis: Cumulative Increase]
5. As per Regulation 10-14, the Owner/Operator shall continuously monitor the hydrogen sulfide and shall limit the hydrogen sulfide to no more than 160 ppm (dry). [Basis: Cumulative Increase, BAAQMD 10-14]
6. The Owner/Operator shall make all data pertaining to (1), (2), (3), (4), and (5) above readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verification through Records]

Condition# 15512
For Source S-1010 Hydrogen Plant
1. The Owner/Operator shall route the precursor organic compounds from the deaerator vents associated with the operation of S-1010 Hydrogen Plant downstream to the S-40 and/or S-41 boilers at all times in which the source is in operation. [RACT]

Condition # 16027
For Source S-237 (SG-1032), Boiler
1. Fugitive Emissions Components: The Owner/Operator shall install all hydrocarbon valves greater than 2 inches as one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. All flanges installed in the piping systems by the Owner/Operator shall be equipped with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [[Basis: BACT]
2. Completed.
3. Fuel Gas System: The Owner/Operator shall limit the refinery low-pressure fuel gas to no more than any of the following: (a) 100 ppmv H2S, averaged over a 24-hour calendar day and (b) 160 PPM H2S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS>
4. Fuel Gas System: Owner/Operator shall limit the refinery low-pressure fuel gas to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four-

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quarter period. [Basis: BACT,
Contemporaneous offsets for S02 and PM10 emissions>

5. Fuel Gas System: The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. [Basis: Cumulative Increase]

6. Fuel Gas System: The Owner/Operator shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts number 3 and 4, based on the previous 24 individual hourly averages. On a quarterly basis, the Permit Holder shall report: (a) the daily fuel consumption at S-237, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Cumulative Increase]

7. The Owner/Operator shall only fire S-237 Boiler natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. [Basis: Cumulative Increase, Toxics, offsets]

8. The Owner/Operator shall limit total emissions from this combustion source (S-237) including startups and shutdowns, to no more than the following annual limits: [Basis: Cumulative Increase, Offsets>

Pollutant	Annual (tons)
NOx	13.278
CO	44.721
SO2	8.644
PM10	3.132
POC	2.881

Combustion emissions shall be calculated using the following emission factors:

NOx:	Summation of daily emissions using CEM data
CO	0.0200 lb/MMBtu
SO2	0.0069 lb/MMBtu
PM10	0.0025 lb/MMBtu
POC	0.0023 lb/MMBtu.

9. The Owner/Operator shall equip the S-237 Boiler with a District approved continuous fuel flow monitor and recorder in order to determine fuel

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consumption. (This is a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring and Records>

10. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. [BAAQMD 6-301]
11. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to boiler dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units.S-237 Boiler. [Basis: Cumulative Increase, offsets, operational allowances>
12. Except during startup and shutdown, the Owner/Operator shall limit the emissions of nitrogen oxides from the S-237 to no more than 9 ppmv, dry, corrected to 3% oxygen, (0.0106 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, offsets>
13. For the S-237 Boiler, the Owner/Operator shall limit the CO emissions to no more than 50 ppmv, dry, corrected to 3% oxygen, (0.0357 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. Demonstration of compliance will be based on source test data [Basis: BACT]
14. The Owner/Operator shall abate S-237 at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT]
15. Except during periods of startup and shutdown, Owner/Operator shall limit the ammonia emissions (ammonia slip) from the SCR unit (A-58) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. Demonstration of compliance shall be based on source test data. [Basis: Cumulative Increase, Monitoring, Toxics]
16. The Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring and Records>
17. Completed.

Throughput Limitation

18. The Owner/Operator shall limit the total combined heat input for S-237 to no more than 2,505,360 million BTUs (HHV) in any 365 consecutive day period. [Basis: Cumulative Increase, Offsets>
19. Owner/Operator shall limit the The total combined heat input for S-237 shall not exceed 7560 million BTUs in any calendar day period. [Basis: Cumulative Increase>
20. Deleted. (Basis: same as Condition 16386, Part 1)

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21. Deleted. (Basis: same as Condition 16386, Parts 2 and 3)

22. The Owner/Operator shall conduct a District-approved source test on an annual basis on Sources S-237 to demonstrate compliance with the limit in part 13 of this condition. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 2-6-503]

Condition 16186 is obsolete. The source no longer exists.

Condition # 16386
For Sources S-37, (SG-702), Waste Heat Boiler, S-45, (GT-702) Process Gas Turbine

1. Except during startup and shutdown, the Owner/Operator shall limit the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, to no more than 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>
2. Deleted. [Basis: NOx limitation is covered by Regulation 9, Rule 9.]
3. Except during startup and shutdown, the Owner/Operator shall abate the emissions from the S-45 gas Turbine using the A-51 Selective Catalyst Reduction System at all times in which it is operational. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>
4. The Owner/Operator shall abate the emissions from the S-37 Steam Generator Gas Turbine using the A-51 Selective Catalyst Reduction System at all times in which it is in operation, except for the following: [Basis: Permanency of Contemporaneous Banking Credit, Offsets>
   A. During periods of startups and shutdowns.
   B. Infrequent periods not to exceed 45 days in any consecutive three year period.
5. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24 hour period does not apply during the initial startup of the units. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>
6. The Owner/Operator shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx)

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emissions from this combined system consisting of S-45 and S-37. [Basis: Regulation 9, Rule 9, enforceability of contemporaneous banking credit, offsets>

7. The Owner/Operator shall limit the total emissions of nitrogen oxides (NOx) emissions for S-37 Steam Generator to no more than 23.851 tons per calendar year. [Basis: Permanency of Actual Emissions Reduction for S-237>

8. To demonstrate compliance with the above conditions, the Owner/Operator shall maintain the following records in a District approved log for S-37. These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. [Basis: Banked POC credits requirements>
   a. Daily usage of refinery fuel gas at S-37, in cubic feet
   b. Daily usage of refinery fuel gas at S-45, in cubic feet
   c. Daily HHV of refinery fuel gas
   d. Daily mass emissions from the combined exhaust, as measured by the CEM
   e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data
   f. Computation of monthly and annual mass emissions from S-37
   g. Days of startup, shutdown and S-37 singular operations.

Condition #17835

For Source S-1027: Light Ends Rail Rack

1. The Owner/Operator of the Light Ends Rail Rack (S-1027) shall handle no more than 22,500 barrels per day, as averaged over the quarterly period. [Basis: Cumulative Increase]

2. The Owner/Operator of the Light Ends Rail Rack (S-1027) shall handle no more than 8.2125 million barrels of liquefied gases (propanes, butanes, pentanes) in any consecutive four-quarter period. [Basis: Cumulative Increase, Toxics, BACT]

3. The Owner/Operator shall maintain quarterly records in a District-approved log. These records shall be retained for a period of at least five years. The logs shall be kept on site and made available to District staff upon request. [Recordkeeping]

Condition #18043

For S-1007 Alkylation Unit, S-1014 Virgin Light Ends Splitter, S-1012 Dimersol Unit

1. Total fugitive POC emissions from the MTBE Phaseout Project at the Benicia

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Refinery (Plant #12626) shall not exceed 0.571 ton in any rolling 12 consecutive month period. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from this source exceed 0.571 ton/year, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. <Basis: Cumulative Increase, Toxics>

2. Deleted. <Basis: Covered in BAAQMD Regulation 8, Rule 18.>

3. Deleted. <Basis: Covered in BAAQMD Regulation 8, Rule 18.>

Condition # 18344

For Source S-1 and S-2

1. Deleted. (Application #3902, 1/02)

2. Deleted. (Application #3902, 1/02)

Condition # 18422
For Source S-239 (TK-1918)

1. The Owner/Operator shall limit the total liquid throughput at source S-239 to no more than 102,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)
2. The Owner/Operator shall equip the S-239 with a submerged fill pipe. (Basis: Regulation 8-5-301)
3. In order to demonstrate compliance with the part 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)

Condition # 18744

1. The Owner/Operator shall fire the S-243 emergency generator exclusively on diesel fuel having a sulfur content no greater than 0.05%, by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. [Basis: Cumulative Increase]

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Condition # 18748

For Sources S-240, S-241 and S-242 Emergency Generators

1. The Owner/Operator shall fire the engines for emergency generators S-240, S-241, and S-242 exclusively on diesel fuel having a sulfur content no greater than 0.05% by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. [Basis: Cumulative Increase]

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COND# 18794

APPLICATION 4114; VALERO REFINING COMPANY; PLANT 12626
CONDITIONS FOR S-1004:

1. Total throughput of Naphtha through Catalytic Reformer shall not exceed the following limits:

a. 12,739 KB/Year (34.9 KB/D annual average)
b. 39.8 KB/Day

2. The following monthly records shall be maintained in a District-approved log for at least 5 years for S-1004 and shall be made available for District inspection upon request:
[Basis: Regulations 9-8-530, 1-441]

a. Daily Maximum Naphtha throughput in KB/D
b. Daily Average Naphtha throughput in KB/D

Condition 19176
For Sources S-16, S-17, S-18, S-19 Flares (ST-2101AG, ST-1701, ST-2101, ST-2103)
Mis-numbered. See Condition 20806 for correct condition.

Condition # 19177

Definitions:

APCO	Air Pollution Control Officer.
MOP	Manual of Procedures.
POC	Precursor Organic Compound: Rule 1-233 excepting the non-precursor organic compound listed in Rule 1-234.
1-hour period:	Any continuous 60-minute period beginning on the hour.

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Calendar Day: Any continuous 24-hour period beginning at 12:00 AM or 0000 hours.

Year: Any consecutive twelve-month period of time

Heat Input: All heat inputs refer to the heat input at the higher heating value (HHV) of the fuel, in Btu/scf.

Rolling 3-hour period: Any three-hour period that begins on the hour and does not include start-up or shutdown periods.

Firing Hours: Period of time during which fuel, other than pilot gas, is flowing to a unit, measured in fifteen-minute increments.

MM Btu: million British thermal units

Start-up Mode: The lesser of the first 256 minutes of continuous fuel flow to the Gas Turbine/HRSG after fuel flow is initiated or the period of time from Gas Turbine/HRSG fuel flow initiation until the Gas Turbine/HRSG achieves 60 consecutive minutes of CEM data points in compliance with the emission concentration limits of Parts 18(a) and 18(b) or 19(b) and 19(d).

Shutdown Mode: The 30 minute period of time from non-compliance with any requirement listed in Parts 18(a) and 18(b) or 19(b) and 19(d) involving termination of fuel flow to the Gas Turbine/HRSG.

Corrected Concentration: The concentration of any pollutant (generally NOx, CO, or NH3) corrected to a standard stack gas oxygen concentration. For emission point P-60 (combined exhaust of S-1030 Gas Turbine and S-1031 HRSG duct burners) and emission point P-62 (combined exhaust of S-1032 Gas Turbine and S-1033 HRSG duct burners) the standard stack gas oxygen concentration is 15% O2 by volume on a dry basis.

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Commissioning Activities: All testing, adjustment, tuning, and calibration activities recommended by the equipment manufacturers and the construction contractor to insure safe and reliable steady state operation of the gas turbines, heat recovery steam generators, and associated electrical delivery systems.

Commissioning Period: The Period shall commence when all mechanical, electrical, and control systems are installed and individual system start-up has been completed, or when a gas turbine is first fired, whichever occurs first. The period shall terminate when the plant has completed performance testing, is available for commercial operation.

Precursor Organic Compounds (POCs): Any compound of carbon, excluding methane, ethane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate

CEC CPM: California Energy Commission Compliance Program Manager

Conditions for the Approval of the Authority to Construct and Permit to Operate

1. Completed. (Basis: Banking Certificates have been provided)

   Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the Owner/Operator shall provide the following offsets:
   (Basis: NOx and POC)
   Phase I (S-1030 and S-1031)
   NOx: 13.162TPY from Certificate # 703

   Phase II (S-1032 and S-1033)
   NOx: 18.477 TPY Total
   18.256 TPY NOx from Certificate #703
   0.221 TPY POC for NOx from Certificate #682
   POC: 7.401 TPY POC from Certificate #682

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2. For SO2 emissions offsets, a curtailment group is established as follows: (Basis: SO2 offsets)
Curtailment Group:
Emission Sources
Total Group Baseline
S-237 Steam Boiler SG1032
S-220 Hot Oil Furnace F 4460
MTBE Ships
S-40 Boiler SG2301
Phase I New GT/HRSG (S-1030 & S-1031)
Phase II New GT/HRSG (S-1032 & S-1033)

a. The Owner/Operator shall limit the SO2 emissions from the Curtailment Group to no more than 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit.
b. The Owner/Operator shall calculate the emissions using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. The Owner/Operator shall calculate emissions from MTBE ships using the District approved method established for the ships in Application #6968, Condition #10797.
c. The Owner/Operator shall submit a quarterly report of the group emissions to the District, in a District approved format, to document compliance.

3. The Owner/Operator of the proposed power plant (S-1030, S-1031, S-1032, S-1033) shall minimize emissions of carbon monoxide and nitrogen oxides from these sources to the maximum extent possible during the commissioning period.
Parts 3 through 12 shall only apply during the commissioning period as defined above. Unless otherwise indicated, the remaining conditions shall apply after the commissioning period has ended.

4. At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Owner/Operator shall tune the Gas Turbine combustors and Heat Recovery Steam Generator duct burners to minimize the emissions of carbon monoxide and nitrogen oxides.

5. At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Owner/Operator shall install, adjust and operate the A-60/A-62 SCR System, and A-61/A-63 CO Oxidation Catalyst System to minimize the emissions of carbon monoxide and nitrogen oxides from S-1030 Gas Turbine and S-1031 Heat Recovery Steam Generator.

6. Coincident with the as-designed operation of A-60/62 SCR System, the Owner/Operator of the Gas Turbines (S-1030 and S-1032) and the HRSG (S-1031 and S-1033) shall comply with the NOx and CO emission limitations specified in parts 18(a), 18(b), 19(b)

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and 19(d).

7. The Owner/Operator shall submit a plan to the District Permit Services Division and the CEC CPM at least four weeks prior to first firing of S-1030 or S-1032 Gas Turbines describing the procedures to be followed during the commissioning of the gas turbine and HRSG. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation and operation of the SCR systems and oxidation catalysts, the installation, calibration, and testing of the CO and NOx continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S-1030 or S-1032) and HRSGs (S-1031 or S-1033) without abatement by their respective SCR and CO Catalyst Systems.

8. During the commissioning period, the Owner/Operator shall demonstrate compliance with parts 10 through 12 through the use of properly operated and maintained continuous emission monitors and data recorders for the following parameters:
   firing hours for the gas turbine and HRSG
   fuel flow rates through the train
   stack gas nitrogen oxide (and oxygen) emission concentrations at P-60/P-62
   stack gas carbon monoxide emission concentrations P-60/P-62
   stack gas SO2 emission concentrations at P-60/P-62 or fuel TRS/H2S concentrations.

   The Owner/Operator shall record the monitored parameters at least once every 15 minutes (excluding calibration periods as required by the MOP or when the monitored source is not in operation) for the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033). The Owner/Operator shall use District-approved methods to calculate heat input rates, NOx mass emission rates, carbon monoxide mass emission rates, SOx mass emission rates, and emission concentrations of NOx, SOx, and CO, summarized for each clock hour and each calendar day. All records shall be retained on site for at least 5 years from the date of entry and made available to District personnel upon request.

9. For the District-approved continuous emission monitors specified in part 8, the Owner/Operator shall install, calibrate, and operate it prior to first firing of the Gas Turbines (S-1030 or S-1032) and Heat Recovery Steam Generator (S-1031 or S-1033). After first firing of the turbine, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the resulting range of CO, SOx, and NOx emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval.

10. The Owner/Operator shall limit the total number of firing hours of S-1030/S-1032 Gas Turbines and S-1031/S-1033 Heat Recovery Steam Generators without abatement of nitrogen oxide emissions by A-60/A-62 SCR System and/or A-61/A-63 Oxidation Catalyst System to no more than 250 hours for each turbine and associated HRSG train

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during the commissioning period. Such operation of S-1030/S-1032 Gas Turbine and S-1031/S-1033 HRSG without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational. Upon completion of these activities, the owner/operator shall provide written notice to the District Permit Services and Enforcement Divisions and the unused balance of the 250 firing hours, without abatement, for each turbine train shall expire.

11. The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in part 22.

12. The Owner/Operator shall limit the combined pollutant mass emissions from the Gas Turbine (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) to no more than thefollowing limits during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines and HRSGs (S-1030, S-1031, S-1032 & S-1033).

NOx (as NO2)	360.34 pounds per calendar day
CO	513.216 pounds per calendar day
POC (as CH4)	97.776 pounds per calendar day
PM10	224.08 pounds per calendar day
SO2	516 pounds per calendar day.

13. The Owner/Operator shall only fire the Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)

14. The Owner/Operator shall limit the combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) each to no more than 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in each power train (S-1030 or S-1032) shall not exceed 500 MM Btu/hr, maximum firing rate. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)

15. The Owner/Operator shall limit the combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) each to no more than 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)

16. The Owner/Operator shall limit the combined cumulative heat input rate for each power train consisting of Phase I (S-1030 and S-1031) or Phase II (S-1032 and S-1033) to no more than 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)

17. The Owner/Operator shall abate the S-1030/S-1032 Gas Turbines and S-1031/S-1033 HRSGs by the properly operated and properly maintained A-60/A-62 Selective

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Catalytic Reduction (SCR) System and A-61/A-63 CO Oxidation Catalyst System whenever fuel is combusted at those sources and the catalyst bed has reached minimum operating temperature as designated by the manufacturer. (Basis: BACT for NOx)

18. The Owner/Operator of the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)

18a(1). The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 to no more than 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period. (Basis: BACT for NOx when firing natural gas)

18a(2) After the first 3 hours of operation of the Phase II Cogeneration Unit on natural gas exclusively during a changeover from refinery gas, the Owner/Operator shall limit the emissions of nitrogen oxides (NOx) at emission point P-62 to no more than 2.0 ppmv, on a dry basis, corrected to15% O2, averaged over one hour period. During this three hour transition period, the Emissions of nitrogen oxides (NOx) at emission point P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period. (Basis: Phase II BACT for NOx when firing natural gas)

18b. Owner/Operator shall limit the carbon monoxide emissions concentration at P-60 or P-62 to no more than 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)

18c. The Owner/Operator shall limit the Ammonia (NH3) emission concentrations at P-60 or P-62 to no more than 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)

18d. The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH4) from P-60 or P-62 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/HRSG train. (Basis: BACT for POC when firing natural gas)

18e. For sulfur dioxide (SO2) emissions, the Owner/Operator shall limit the sulfur content in the natural gas to no more than 1.0 grain per 100 scf of natural gas. The Owner/Operator shall use standard pipeline quality natural gas as supplied by PG&E. The Owner/Operator shall demonstrate compliance in accordance with part # 35. (Basis: BACT for SO2 when firing natural gas)

18f. For particulate (PM10) emissions, Owner/Operator shall limit the sulfur content in the natural gas to no more than 1.0 grain per 100 scf of natural gas. The Owner/Operator shall use standard pipeline quality natural gas as supplied by PG&E. The Owner/Operator shall demonstrate compliance in accordance with part # 35. (Basis: BACT for PM10 when firing natural gas)

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19. The Owner/Operator of the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)

19a. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx), calculated in accordance with District approved methods as NO2, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) or P-62 (the combined exhaust point for the S-1032 Gas Turbine and the S-1033 HRSG after abatement by the A-62 SCR system) to no more than 7.29 pounds per clock hour. (Basis: BACT for NOx, Offsets)

19b. TheOwner/Operator shall limit the emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 to no more than 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over any 3-clock hour period (Basis: BACT for NOx)

19c. The Owner/Operator shall limit the carbon monoxide mass emissions at P-60 or P-62 no mor e than 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)

19d. The Owner/Operator shall limit the carbon monoxide emission concentration at P-60 or P-62 to no more than 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO)

19e. The Owner/Operator shall limit the Ammonia (NH3) emission concentrations at P-60 or P-62 to no more than 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)

19f. The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH4) at P-60 or P-62 to no more than 2.037 pounds per hour. The Owner/Operator shall demonstrate compliance on source test results. (Basis: BACT)

19g. The Owner/Operator shall limit the sulfur dioxide (SO2) mass emissions at P-60 or P-62 to no more than 10.75 pounds per hour (rolling 24 hour average). The Owner/Operator shall limit the sulfur concentrations in the refinery fuel gas to no more than 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT)
The Owner/Operator shall limit the Sulfur concentrations in fuel gas fired in S-1030, S-1031, S-1032 and S-1033 to no more than 100 ppm Totaled Reduced Sulfur (rolling 24 hour average). (Basis: BACT)
The Owner/Operator shall limit the hydrogen sulfide (H2S) concentrations in refinery fuel gas to no more than 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)

19h. The Owner/Operator shall limit the particulate matter (PM10) mass emissions from P-60 or P-62 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr averaged over any consecutive 24-hours. Demonstration of compliance will be based on source test results. (Basis: BACT for PM10)

20. The Owner/Operator shall limit the sulfuric acid emissions (SAM) from P-60 and P-62

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combined to no more than 7 tons in any consecutive four quarters. (Basis: PSD)

21. The Owner/Operator shall commence a District approved initial source test within 60 days of startup to demonstrate compliance with the NOx, CO, POC, TRS, SO2, PM10, NH3, and SAM levels in Parts number 18, 19 or 20. For purposes of SAM, the Owner/Operator shall also test for SO3 and ammonium sulfates. The Owner/Operator shall submit the test results to the District within 60 days of completion of the field test. The test should verify emission compliance at 80% or more of maximum firing on:
    1. Gas Turbine firing natural gas only
    2. Gas Turbine and HRSG firing natural gas only
    3. Gas Turbine firing refinery fuel gas only
    4. Gas Turbine and HRSG firing refinery fuel gas only.

    [Basis: PSD, BACT, Toxic Risk Management Policy]

22. The Owner/Operator shall limit the total emissions from each power train consisting of Phase I and Phase II (S-1030, S-1031, S-1032 and S-1033) to no more than the following annual limits (365 day rolling average): (Basis: Cumulative Increase, Offsets, PSD)

22a. Phase I (S-1030 and S-1031)

NOx - 28.603 TPY (based on CEM data)
POC – 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY)
SOx – 15.0 (based on TRS measurement)
CO - 41.9285 TPY (based on CEM data)
PM10 – 6.803 TPY (based on source test results)

Phase II (S-1032 and S-1033)

NOx - 28.603 TPY (based on CEM data)
POC – 8.332 TPY (based on Gas Turbine POC emissions of 7.983 TPY plus fugitive emissions of 0.349 TPY)
SOx – 15.0 (based on TRS measurement)
CO - 41.9285 TPY (based on CEM data)
PM10 – 6.803 TPY (based on source test results).

22b. The PM10 emissions may be adjusted based on source test results for S-1030, S-1031, S-1032 and S-1033) if the particulate emission rate exceeds the assumed level. In no case shall the adjustment when added to the assumed level for Phase I exceed a total of 10.919 tons per year of PM10 emissions. This allowance is based only on the construction of Phase I. If Phase II is constructed, the adjustment when added to the assumed level in Phase I and Phase II, including PM10 emissions from the exempt wet cooling tower, shall not exceed a project total of 15.477 tons per year of PM10. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a

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new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)

22c. The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Part 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I or 15.477 tons/year for both phases. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)

22d. The Owner/Operator shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The Owner/Operator shall submit the report to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)

23. To demonstrate compliance with parts 19(f), 19(g),19(h), 20 and parts of 22, the Owner/Operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The Owner/Operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:

(a) For each calendar day, the Owner/Operator shall summarize the POC, PM10, SAM and SO2 emissions for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] and/or [Gas Turbine (S-1032)/HRSG (S-1033)]

(b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for both power trains: Gas Turbine (S-1030)/HRSG (S-1031) and/or Gas Turbine (S-1032)/HRSG (S-1033). [Basis: Offsets, PSD, Cumulative Increase]

24. 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 comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. 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

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used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 60 days of conducting the tests. [Basis: Offsets, PSD, Cumulative Increase]

25. The Owner/Operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502)

26. The Owner/Operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501)

27. The Owner/Operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)

28. The Owner/Operator shall have a stack height for emission points P-60 and P-62 each at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)

29. The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)

30. Within 180 days of the issuance of the Authority to Construct, the Owner/Operator shall contact the BAAQMD Technical Services Division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests required. All source testing and monitoring shall be conducted in accordance with the BAAQMD Manual of Procedures. (Basis: Regulation 1-501)

31. For the startup period for the Gas Turbines/HRSGs, the Owner/Operator shall limit the startup period to no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics]

32. Unwarranted. [Basis: Cogeneration plant has been incorporated into the Title V permit. The condition to submit an application for a significant revision of the Title V permit to include the Cogeneration facility is no longer needed.]

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33. Pursuant to 40 CFR Part 72.30(b)(2)(ii) of the Federal Acid Rain Program, the Owner/Operator of the Valero Power Plant shall not operate Phase II of the cogeneration project until either: 1) a Title IV Operating Permit has been issued; 2) 24 months after a Title IV Operating Permit Application has been submitted, whichever is earlier. (Basis: Regulation 2, Rule 7)

34. The Owner/Operator of the Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)

35. The Owner/Operator shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030, S-1031, S-1032 and S-1033). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO2, BACT)

36. The Owner/Operator shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H2S content of the refinery fuel gas. On a quarterly basis, the owner shall report:
(a) the daily fuel consumption,
(b) hourly H2S content (as averaged over 3 consecutive hours) of the refinery fuel gas,
(c) hourly total reduced sulfur content (as averaged over 24 consecutive hours),
(d) quarterly daily averaged H2S content
(e) quarterly daily averaged total reduced sulfur content, and
(f) annual averaged reduced sulfur content using the last four quarters.
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 quarter. [Basis: BACT, Offsets, Cumulative Increase]

37. The Owner/Operator shall equip the four sources (S-1030, S-1031, S-1032 and S-1033) with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. [Basis: BACT, Offsets, Cumulative Increase, Monitoring]

38. The Owner/Operator shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NOx, CO and O2. [Basis: BACT, Offsets, Cumulative Increase, Monitoring]

39. The Owner/Operator shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The Owner/Operator shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]

40. The Owner/Operator shall conduct a quarterly source test to demonstrate compliance with part 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO2, SO3, SAM and ammonium sulfates. The Owner/Operator shall conduct the tests

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in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: Cumulative Increase]

41. The Owner/Operator shall equip all hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets)

42. Deleted. [Basis: Inspection of hydrocarbon valves covered by Regulation 8, Rule 18.]

43. The Owner/Operator shall equip all connectors installed in the piping systems as a result of Phase I or Phase II of the Cogeneration project with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)

44. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of Phase I or Phase II of the Cogeneration project with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18. All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)

45. Deleted. (Basis: New fugitive equipment in organic service has been integrated into the owner's fugitive equipment monitoring and repair program and meets the requirements of District Regulation 8-18.)

46. The Owner/Operator of the Cogeneration project consisting of S-1030, S-1031, S-1032, S-1033 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors The annual mass limit for POC (Part number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit issuance. [Basis: Cumulative Increase, Offsets]

47. Deleted. (Basis: The S-38 and S-39 steam boilers have been completely shutdown.)

48. The Owner/Operator shall completely shutdown the S-41 steam boiler no later than 90 days after startup of the S-1032 and S-1033 power train. The Owner/Operator shall enter into the record log the date the boiler was shutdown. (Basis: offsets)

Temporary Condition for Phase I: Expires after the first 36 hours of Commissioning

49. Deleted. (Basis: Phase I commissioning period has ended.)

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Condition 19329 (Alternative Compliance Plan)
For S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30 through S-33, S-34, S-35, S-40, S-41, S-173 and S-220

1. The affected sources making up this Alternative Compliance Plan shall not exceed the following maximum hourly firing rates: (Basis: Regulation 2-9-303.4.1, Cumulative Increase)

Valero Refining Company (Plant # B2626)
S-7 Pipestill Hydrofiner Furnace: F-103, 53 MMBtu/Hr
S-20 Naphtha Hydrofiner Furnace: F-104, 62 MMBtu/Hr
S-21 Hydrogen Reforming Furnace: F-301, 614 MMBtu/Hr
S-22 Hydrogen Reforming Furnace: F-351, 614 MMBtu/Hr
S-23 HCU Recycle Gas Furnace: F-401, 200 MMBtu/Hr
S-24 Cat Feed Hydrofiner Treat Gas Furnace: F-601, 33 MMBtu/Hr
S-25 Fluid Catalytic Cracker Unit: F-701, 230 MMBtu/Hr
S-26 Cat Naphtha Hydrofiner Furnace: F-801, 33 MMBtu/Hr
S-30- S-S33 Power former Furnace: F-2901 thru 2904, 463 MMBtu/Hr
S-34 Powerformer Regenerator Furnace: F-2905, 74 MMBtu/Hr
S-35 Powerformer Reactivation Furnace: F-2906, 14 MMBtu/Hr
S-40 Utility Package Boiler: SG-2301, 218 MMBtu/Hr
S-41 Utility Package Boiler: SG-2301, 218 MMBtu/Hr
S-173 Coker Steam Superheat Furnace: F-902, 20 MMBtu/Hr
S-220 MRU Hot Oil Furnace: F-4460, 351 MMBtu/Hr

Valero Asphalt Plant (Plant # B3193)
S-19 Vacuum Heater: H-1, 40 MMBtu/Hr (from 33 MMBtu/Hr 4/03, AN 7023)
S-20 Steam Boiler: H-2A, 15 MMBtu/Hr
S-21 Steam Boiler: H-2B, 15 MMBtu/Hr

2. The applicant shall submit quarterly reports and an annual report (July 1 to June 30) of their ACP activity no later than 30 days after the close of the specified period. (Basis: Regulation 2-9-303.3)

3. The applicant shall submit all necessary documents to the District to review and approve (or deny) the Alternative Compliance Plan. These documents in support of continuing the ACP shall be submitted no later than 30 days after the close of the calendar year. (Basis: Regulation 2-9-303.3)

4. The applicant shall maintain all records required in ~~condition~~Parts #2 and #3 for a period of at least 5 years from the date of such record. These records shall be made available to District staff upon request. (Basis: ~~Record keeping~~ Regulation2-9-303.3)

Condition 19466

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1. Deleted. (Basis: Sampling is a safety problem and there is reasonable assurance that compliance with Regulation 9-1-313.2 is achieved. See detailed analysis in Statement of Basis)

2a. Deleted. (Basis: S-188 vents to the refinery fuel gas system).

2b. Deleted. (Basis: S-189 vents to the refinery fuel gas system).

2c. Deleted. (Basis: S-160 was modified in May, 2005 and now vents to Vapor Recovery System A-13/A26)

2d. The Owner/Operator shall operate S-160 Seal Oil Sparger only when abated by A-13/A-26 Vapor Recovery Compressor to be returned to the refinery fuel gas system. (Basis: Cumulative Increase)

3. The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. 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 6-301]

4. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]

5. The Owner/Operator shall abate the emissions from the S-3 and S-4, CO Boilers, by at least four of the five A-1 through A-5 Electrostatic Precipitators and the Owner/Operator shall exhaust those emissions through the main stack (P-1). [Basis: Regulation 6-301 and Regulation 6-304].

6. The Owner/Operator shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days

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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 6-310]

7. The Owner/Operator shall perform an annual source test on Sources S-8 and S-176 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results 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. For S-176 only, this source test is only required when dry salt is added to the tank. [Basis: Regulation 6-310]

8. The Owner/Operator shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO3 and H2SO4). The Owner/Operator shall submit the test results 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 6-330]

9. The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). The Owner/Operator shall submit the test results 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 6-311]

10. The Owner/Operator shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The Owner/Operator shall submit the test results 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 9-10-305]

11. The Owner/Operator shall conduct a semi-annual District-approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NOx not to exceed 55 ppmv, dry, at 15% O2, fired on refinery fuel gas). The Owner/Operator shall submit the test results 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

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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]

12. The Owner/Operator shall abate the VOC emissions from the S-159 Lube Oil Reservoir using the S-36 Boiler. [Basis: Cumulative Increase]

13. The Owner/Operator shall vent the VOC emissions from S-167 and S-168 Seal Oil Spargers in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system. [Basis: Cumulative Increase]

14. The Owner/Operator shall use the continuous emission monitors required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources:
    CO Furnaces: S-3, S-4
    Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220
    Steam Generators : S-40, S-41

15. The Owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources:

S-5	Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-6	Fluid Coker, Burner

16. To allow sufficient time to prepare test plans, train employees, and install any necessary equipment, the monitoring requirements Parts 1, 2c, 3, 6, 7, 8, 9, 10, 11, 14 and 15 are effective April 1, 2004.

Condition 20762
For Refinery:

This condition applies to tanks that are exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to the exemption in Regulation 8-5-117 for storage of organic liquids with a true vapor pressure of less than or equal to 25.8 mm Hg (0.5 psia).

1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg (0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator

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may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulation 8-5-117)

2. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: 8-5-117)

Condition # 20806 ----------

For S-16, S-18, S-19 Flares (ST-2101AG, ST-2101, ST-2103)

3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the Owner/Operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (basis: Regulation 2-6-409.2)

4. The Owner/Operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.
   a. If the Owner/Operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.
   b. If the Owner/Operator cannot determine that there are no visible emissions using video monitoring, the Owner/Operator shall conduct a visual inspection outdoors using either:
      i. EPA Reference Method 9; or
      ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.

   c. If a visible emission is observed, the Owner/Operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
   d. The Owner/Operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day.

   (Basis: Regulation 6-301, 2-1-403)

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5. The Owner/Operator shall comply with one of the following requirements if visual inspection is used:
   a. If EPA Method 9 is used, the Owner/Operator shall comply with Regulation 6-301 when operating the flare.
   b. If the procedure of 4.b.ii is used, the Owner/Operator shall not operate a flare that has visible emissions for three consecutive minutes.

   (Basis: Regulation 2-6-403)

6. The Owner/Operator shall keep records of all flaring events, as defined in Part 3. The Owner/Operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (Basis: Regulation 2-6-501; 2-6-409.2)

7. (Deleted June 2005. Limiting the gases burned at S-19 did not resolve the intended issue of compliance with NSPS Subpart J).

8. To allow sufficient time to prepare monitoring plans, train employees, and install any necessary equipment, Parts 1 through 7 of this Condition are effective January 1, 2005.

Condition 21233

Valero Refining Company – California
3400 E. Second Street
Benicia, Ca 94510
Application 11307
Plant B2626 and A0901
Regulation 9-10 Refinery-Wide Compliance
S-20 (B2626) Modified by Application 12701

*1. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: (Basis: Regulation 9-10-301 & 305)

Facility No. B2626, Valero Refining Company

S#	Description	NOx CEM
7	F-103 Jet Fuel HF, 53 MMBtu/hr	No

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20	F-104 Naphtha HF, 62 MMBtu/hr	No
21	F-301 Hydrogen, 614 MMBtu/hr	Yes
22	F-351 Hydrogen, 614 MMBtu/hr	Yes
23	F-401 Gas Oil HC, 200 MMBtu/hr	Yes
24	F-601 Cat Feed HF, 33 MMBtu/hr	No
25	F-701 Cat Feed, 230 MMBtu/hr	Yes
26	F-801 HCN HF, 33 MMBtu/hr	No
30	F-2901 PFR Preheat, 463 MMBtu/hr total	Yes
31	F-2902 PFR Preheat, 463 MMBtu/hr total	Yes
32	F-2903 PFR Preheat, 463 MMBtu/hr total	Yes
33	F-2904 PFR Preheat, 463 MMBtu/hr total	Yes
34	F-2905 PFR Regen Gas, 74 MMBtu/hr	No
35	F-2906 PFR React Gas, 14 MMBtu/hr	No
40	SG-2301 Steam Gen, 218 MMBtu/hr	Yes
41	SG-2302 Steam Gen, 218 MMBtu/hr	Yes
173	F-902 Coker Steam Superheat, 20 MMBtu/hr	No
220	F-4460 MRU Hot Oil, 351 MMBtu/hr	Yes

Facility No. A0901 (13193), Valero Benicia Asphalt Plant

S#	Description	NOx	CEM
19	Vacuum Heater, 40 MMBtu/hr	No	
20	Steam Boiler, 14.7 MMBtu/hr	No	
21	Steam Boiler H-2B, 14.7 MMBtu/hr	No	

A. Compliance with the daily refinery wide average NOx emission limit, 0.033 lb NOx/MMBtu fired duty is achieved through the use of an approved Alternate Compliance Plan using NOx IERCs in accordance with the provisions in Regulation 2-9-303.

B. The owner/operator of each source listed in Part 1 above shall determine compliance with Regulation 9-10 as follows:

1) Calculate NOx emissions from each furnace using measured fuel gas rates, and either:

   a. CEM data or

   b. NOx emission factors from Part 5A

2) The daily facility wide average emission rate shall be determined by dividing the combined total emissions from sources listed in Part 1 above by the combined total heat input.

3) Sufficient NOx IERC's will be provided in accordance with the provisions of

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Regulation 2-9-303 to ensure compliance with the refinery wide average NOx emission limit of 0.033 lb NOx/MMBtu fired duty.

*2. The Owner/Operator of each source with a maximum firing rate greater than 25 MMBtu/hr listed in Part 1 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. (Basis: Regulation 9-10-502)

*3. The Owner/Operator shall operate each source listed in Part 1, which does not have a NOx CEM, within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from District-approved source tests. (Basis: Regulation 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 4.

B. The NOx 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 (except for S-35, for which the low-fire shall be 8% of the maximum rated capacity). There shall be no maximum or minimum O2.

*4. The Owner/Operator shall establish the initial NOx box for each source subject to Part 3 by January 1, 2005. The NOx Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (Basis: Regulation 9-10-502) The procedure for establishing the NOx box is

A. Conduct District approved source tests for NOx and CO, while varying the oxygen concentration and firing rate over the desired operating ranges for the furnace;

B. Determine the minimum and maximum oxygen concentrations and firing rates for the desired operating ranges (Note that the minimum O_2 at low-fire may be different than the minimum O_2 at high-fire. The same is true for the maximum O_2). The Owner/Operator shall also verify the accuracy of the O2 monitor on an annual basis.

C. Determine the highest NOx emission factor (lb/MMBtu) over the preferred operating ranges while maintaining CO concentration below 200 ppm; the Owner/Operator may choose to use a higher NOx emission factor than tested.

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D. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NOx Box, which represents the allowable operating range(s) for the furnace under which the NOx emission factor from part 5a is deemed to be valid.

1). The NOx Box can represent/utilize either one or two emission factors.

2) The NOx Box for each emission factor can be represented either as a 4- or 5-sided polygon The NOx box is the area within the 4- or 5-sided polygon formed by connecting the source test parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 5.

E. Upon establishment of each NOx Box, the Owner/Operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.

*5. Except as provided in part 5B & C, the Owner/Operator shall operate each source within the NOx Box ranges listed below at all times of operation. This part shall not apply to any source that has a properly operated and properly installed NOx CEM. (Basis: Regulation 9-10-502)

A. NOx Box ranges. The limits listed below are based on a calendar day averaging period for both firing rate and O2%.

Source No.	Emission Factor (lb/MMBtu)	Min O_2 at Low Firing (O2% , MMBtu/hr)	Max O_2 at Low Firing (O2% , MMBtu/hr)	Min O_2 at High Firing (O2% , MMBtu/hr)	Mid O_2 at Mid/High Firing (polygon) (O2% , MMBtu/hr)	Max O_2 at High Firing (O2% , MMBtu/hr)
Plant B2626						
7	0.350	3, 16	17, 10	6, 30	N/A	11, 37
20	0.28	2, 19	7, 19	2, 37	2, 50	6, 41
24	0.757	11,7	14, 8	3, 27	6, 12	7, 29
26	0.194	13, 9	17, 7	6, 21	8, 17	12, 24
34	0.250	17, 2	20, 2	4, 26	N/A	7, 38
35	0.200	(Note 1), 1	(Note 1), 1	(Note 1), 14	N/A	(Note 1), 14
173	0.050	(Note 1), 4	(Note 1), 4	(Note 1), 20	N/A	(Note 1), 20
Plant A0901 (13193)						
S-19	0.030	6.8, 13.6	7.6, 13.5	2.8, 38.5	7.7, 16.6	6.2, 38.8
S-20	0.055	(Note 1), 2.9	(Note 1), 2.9	(Note 1), 14.7	N/A	(Note 1), 14.7

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S-21	0.055	(Note 1), 2.9	(Note 1), 2.9	(Note 1), 14.7	N/A	(Note 1), 14.7

Note 1: Per Part 3B, Oxygen limits do not apply to sources with maximum firing rates less than 25 MMBtu/hr.

B. Part 5A does not apply to low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity, except for S-35, for which the low-fire shall be 8% of the maximum rated capacity), during startup or shutdown periods, or periods of curtailed operation (ex. during heater idling, refractory dry out, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service & 30-day averaging data).

C. Part 5A does not apply during any source test required or permitted by this condition. See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.

*6. NOx Box Deviations (Basis: 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 that 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 5, or the CO limit in Part 9, the unit will not be considered to be in violation during this period for operating out of the "box."

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

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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 the measured emission concentration or rate, the Owner/Operator shall perform an assessment of compliance with Regulation 9-10-301 as follows:

1. "Out of Box" Condition – for the day(s) in which the "out of box" condition(s) occurred, the Owner/Operator shall ensure sufficient NOx IERCs are provided to ensure the facility is in compliance with the refinery wide limit. The Owner/Operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301.

2. Within the Box – for the case when the source is operated within the "box" but source test results indicate a higher emission factor, the Owner/Operator shall apply the higher emission factor retroactively to the date of the previous source test and provide sufficient NOx IERCs for that time period to ensure the facility is in compliance with the refinery wide limit specified in Regulation 9-10-301. The Owner/Operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301.

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.

*7. For each source subject to Part 3, 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

VI. Permit Conditions

extension of 15 days for submittal of results. (Basis: Regulation 9-10-502)

A. Source Testing Schedule

1) Heater < 25 MMBtu/hr

Annual source test. The time interval between source tests shall not exceed 16 months. The source test results shall be submitted to the District Source Test Manager within 45 days of the test.

2) Heaters ≥ 25 MMBtu/hr

Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the District Source Test Manager within 45 days of the test.

3) If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr - > 16 mos or > 25 MMBtu/hr - > 8 mos), the owner/operator shall conduct the required 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 6A2. If the Owner/Operator chooses not to submit an application to revise the emission factor, the Owner/Operator shall conduct another Part 7 source test, at the same conditions, within 90 days of the initial test.

*8. For each source listed in Part 1 with a NOx CEM installed that does not have a CO CEM installed pursuant to Part 9, 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. (Basis: Regulation 9-10-502)

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*9. For any source listed in Part 1 with a maximum firing limit greater than 25 MMBtu/hr for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O2, the Owner/Operator shall properly install, properly maintain, and properly operate a CEM to continuously measure CO and O2. The Owner/Operator shall install the CEM within the time period allowed in the District's Manual of Procedures. (Basis: Regulation 9-10-502, 1-522)

*10. In addition to records required by Regulation 9-10-504, the Owner/Operator must maintain records of all source tests conducted to demonstrate compliance with Parts 1 and 5. These records shall be kept on site for at least five years from the date of entry in a District approved log and be made available to District staff upon request. (Basis: Regulation 9-10-504)

COND# 22156

Valero Refining Company
3400 E. Second Street
Benicia, CA 94510
Electrostatic Precipitators (ESP) A-1, A-2, A-3, A-4 and A-5

1. The owner/operator of Electrostatic Precipitators (ESP) A-1, A-2, A-3, A-4 and A-5 that abate CO Boilers S-3 and S-4 shall conduct continuous ESP Opacity monitoring for reasonable assurance of compliance with Regulations 6-310. (Basis: Regulation 2-6-503)

2. Deleted. Initial compliance demonstration completed by opacity data recorded over the past 15 years)

3. The owner/operator shall operate A-1, A-2, A-3, A-4 and A-5 that abate CO boilers S-3 and S-4 with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-310. (Basis: Regulation 2-6-503)

4. Deleted. Source test not necessary. Continuous Opacity Monitor installed.

5. Deleted. Deviation reporting redundant to Title V regulation and BAAQMD Regulation 2-6.

Condition #76003
For Source S-108 Pressurized Tank (TK-1801)

1. The Owner/Operator shall limit the rate of filling the tank to a value such that organic emissions are under 4 lb/hr [Basis: Cumulative Increase]

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 or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), semi-annual (SA), quarterly (Q), monthly (M), weekly (W), daily (D), hourly (H), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII – Refinery
Applicable Limits and Compliance Monitoring Requirements
REFINERY-WIDE APPLICABILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Ambient SO_2	BAAQMD Regulation 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 hrs)	BAAQMD Regulations 9-1-501, 9-1-310.3, AND 9-1-110	C	SO_2 GLM
Ambient H_2S	BAAQMD Regulation 9-2-301	N		Limitations on H_2S ground level concentrations	BAAQMD 9-2-501	C	H_2S GLM
		Y		Refinery MACT Startup, Shutdown, Malfunction Report	40 CFR 63 Subpart CC 63.654(h)	P/SA	Report
		Y		Refinery MACT Periodic Report	40 CFR 63 Subpart CC 63.654(g)	P/SA	Report
		Y		Benzene Waste NESHAPS Annual Report	40 CFR 61 Subpart FF 61.357(d)(2) 61.357(d)(8)	P/A	Report
Benzene in Waste	40 CFR 61 Subpart FF 61.342(e)(2)(i)	Y		Uncontrolled and Controlled benzene <6 megagrams/year	40 CFR 61 Subpart FF 61.357(d)(5) 61.356(b)(4)	P/A	Report Records
		Y		Benzene Waste NESHAPS Quarterly Report	40 CFR 61 Subpart FF	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Refinery
Applicable Limits and Compliance Monitoring Requirements
REFINERY-WIDE APPLICABILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					61.357(d)(6) 61.357(d)(7)		
	40 CFR 61 Subpart FF 61.345(b)	Y		Visual inspection of container covers	40 CFR 61 Subpart FF 61.345(b)	P/Q	Visual Inspection
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Tank degassing control device standard; includes 90% abatement efficiency requirement.	BAAQMD Regulation 8-5-502	P/A	Source test
VOC	None	Y		Determinatin of Applicability	BAAQMD Regulation 8-5-604	P/E	Look up table or sample analysis
VOC	SIP 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	SIP 8-10-401 BAAQMD 8-10-501 and 8-10-502	P/E	Records of hydrocarbon concentration emissions
VOC	BAAQMD 8-10-302	N	7/1/2004	No process vessel may be opened to atmosphere unless organic compounds have been reduced to less than 10,000 ppm (methane). 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 and 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 and records of measured hydrocarbon concentration emissions and mass emission calculations.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1 (F1301A) – SULFUR PLANTS, RELATED SOURCES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	BAAQMD Regulation 9-1-313.2	N		95% of H_2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H_2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	None	N	N/A
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visual Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
SO_3, H_2SO_4	BAAQMD Regulation 6-330	Y		0.08 grain/dscf exhaust concentration of SO_3 and/or H_2SO_4, expressed as 100% H_2SO_4	BAAQMD Condition # 19466 Part 8	P/A	Source Test
H_2S	SIP 9-1-313.2	Y		Recovery of 95% of H_2S in refinery fuel gas	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-2 (F1301B) – SULFUR PLANT, RELATED SOURCES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Regulation 9-1-313.2	N		95% of H_2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H_2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	None	N	N/A
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visual Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
SO_3, H_2SO_4	BAAQMD Regulation 6-330	Y		0.08 grain/dscf exhaust concentration of SO_3 and/or H_2SO_4, expressed as 100% H_2SO_4	BAAQMD Condition # 19466 Part 8	P/A	Source Test
H_2S	SIP 9-1-313.2	Y		Recovery of 95% of H_2S in refinery fuel gas	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A3 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-3, S-4 (F101, F102) – CO FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O_2), operating day average	BAAQMD Regulation 9-10-502.1	C	CEM
Fuel Flow	BAAQMD Title V Permit, Table II A	N		46.3 MM therms/year CO+RFG (S-3) 22.7 MM therms/year CO+RFG (S-4)	BAAQMD Regulation 9-10-502.2; BAAQMD Condition #11030 Part 7	C	Fuel Flowmeter
NO_x	BAAQMD Regulation 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm NOx (dry, 3% O_2), operating day average	BAAQMD Condition #19466 Part 14	C	CEM
NO_x	BAAQMD Regulation 9-10-304.1	N		CO Boiler emissions: 150 ppm (dry, 3% O_2), operating day average	BAAQMD Regulation 9-10-502.1	C	CEM
NO_x	BAAQMD Condition # 11030 Part 3	Y		NO_x emissions from abated sources shall not exceed 150 ppm NOx (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
O_2		N		No limit	BAAQMD Regulation 9-10-502.1	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 5	C	Exhaust through main stack which has a COM
Opacity	BAAQMD Regulation 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 19466- Part 5	C	Exhaust through main stack which has a COM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A3 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-3, S-4 (F101, F102) – CO FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
	BAAQMD Regulation6 -310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 22156 Part 1	C	ESP Operating Paramter/ Opacity

Table VII - A4 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-5 (R702) – FLUID CATALYTIC CRACKING UNIT, CATALYST REGENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 15	C	COM
Opacity	BAAQMD Regulation 6-302	Y		20% opacity for no more than 3 minutes/hour	BAAQMD Regulation 6-501 and Regulation 1-520.5	C	COM
Opacity		Y		Opacity Records and Reports	BAAQMD Regulation 6-502 and Regulation 1-522.8	P/M	Reports
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 6	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A4 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-5 (R702) – FLUID CATALYTIC CRACKING UNIT, CATALYST REGENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9	P/A	Source Test
SO_2	BAAQMD Regulation 9-1-310.1	Y		SO_2 emission limit for FCCUs and Fluid Cokers (1000 ppmv), Averaged over 1 hour	BAAQMD Regulation 9-1-502; BAAQMD Regulation 1-520.5	C	SO_2 CEM

Table VII – A5 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-6 (R-902) – FLUID COKER

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 Subpart CC 63.643(a)(2)	Y		Reduce HAP by 98% or to 20 ppm @ 3% O_2, Averaged over 1 hour	40 CFR 63 Subpart CC 63.644(a)(3) (large heaters exempt from monitoring)	N	N/A
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 15	C	COM
Opacity	BAAQMD Regulation 6-302	Y		20% opacity for no more than 3 minutes/hour	BAAQMD Regulation 6-501 and Regulation 1-520.6	C	COM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A5 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-6 (R-902) – FLUID COKER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity		Y		Opacity Records and Reports	BAAQMD Regulation 6-502 and Regulation 1-522.8	P/M	Records
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 6	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9	P/A	Source Test
SO_2	BAAQMD Regulation 9-1-310.1	Y		SO_2 emission limits for FCCUs and fluid cokers (1000 ppmv), averaged over 1 hour	BAAQMD Regulation 9-1-502; BAAQMD Regulation 1-520.6	C	SO_2 CEM

Table VII – A6.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		4.64 MM therms/year (S-7); 5.43 MM therms/year (S-20); 6.48 MM therms/year (S-34)	BAAQMD Regulation 9-10-502..2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-301	N	1/1/05 for 21233 Part 7A	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 7A	P/SA P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Regulation 2- 6-503	P/SA	Source Test And Alternative Compliance Plan
O_2		N	1/1/05 for 21233 Part 2, 4B and 7A	No limit	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2, 4B and 7A	C P/SA	CEM Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N	1/1/05 for 21233 Part 7A	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 10 and BAAQMD Condition # 21233 Part 7A	P/SA	Source Test
CO	BAAQMD Condition # 21233 Part 9	N	1/1/05	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 7A	P/SA	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-24, S-26, S-35 (F601, F801, F 2906) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		2.89 MM therms/year (S-24, S-26); 1.23 MM therms/year (S-35);	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
NO_x	BAAQMD Regulation 9-10-301	N	1/1/05 for 21233 Part 7A	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 7A	P/SA (S-24&26) P/A (S-35) P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Regulation 2- 6-503	P/SA (S-24&26) P/A (S-35)	Source Test And Alternative Compliance Plan

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-24, S-26, S-35 (F601, F801, F 2906) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
O_2		N	1/1/05 for 21233 Part 2, 4B and 7A	No limit	BAAQMD Regulation 9-10-502.1 For S-24 & 26: BAAQMD Condition # 21233 Part 2, 4B and 7A For S-35: BAAQMD Condition # 21233 7A	C P/SA (S-24&26) P/A (S-35)	CEM Source Test
CO	BAAQMD Regulation 9-10-305	N	1/1/05 for 21233 Part 7A	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 10 and BAAQMD Condition # 21233 Part 7A	P/SA (S-24&26) P/A (S-35)	Source Test
CO	BAAQMD Condition # 21233 Part 9 (only applicable to S-24 and S-26)	N	1/1/05	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 7A	P/SA (S-24&26)	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-24, S-26, S-35 (F601, F801, F 2906) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

Table VII – A6.3 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-13, S-50 (F702, F901) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Regulation 2-6-503	N	None
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Regulation 2-6-503	N	None
Fuel Flow	BAAQMD Regulation 9-10-112	N		90,000 therms/year each, during any consecutive 12-month period	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A8.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-16, S-18 (ST-2101AG, ST-2101) – ACID GAS AND SOUTH FLARES

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 6-301	Y	1/1/05 for Cond# 20806	Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 6-305	Y	1/1/05 for Cond# 20806	No visible emissions causing particles on adjacent property	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 6-310	Y	1/1/05 for Cond# 20806	0.15 grain/dscf	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
VOC, HAP		N	12/4/03		BAAQMD Regulation 12-11-501 & 12-11-505	C	Flow Rate
		N	9/4/03		BAAQMD Regulation 12-11-502.2 & 12-11-505	P/E	Composition
		N	3/4/04		BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD Regulation 12-11-504 & 12-11-505	C	Purge Gas Flow Rate

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A8.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-16, S-18 (ST-2101AG, ST-2101) – ACID GAS AND SOUTH FLARES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		N	12/4/03 (if video monitor installed by 1/1/03)		BAAQMD Regulation 12-11-507	C	1 frame per minute image video recording

Table VII – A8.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-17 (ST-1701) – BUTANE FLARE

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-305	Y		No visible emissions causing particles on adjacent property	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A9 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-19 (ST-2103) – NORTH FLARE

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 6-301	Y	1/1/05 for Cond# 20806	Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meter along with Visual Inspection and Records
FP	BAAQMD Regulation 6-305	Y	1/1/05 for Cond# 20806	No visible emissions causing particles on adjacent property	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 6-310	Y	1/1/05 for Cond# 20806	0.15 grain/dscf	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
VOC, HAP		N	12/4/03		BAAQMD Regulation 12-11-501 & 12-11-505	C	Flow Rate
		N	9/4/03		BAAQMD Regulation 12-11-502.2 & 12-11-505	P/E	Composition
		N	3/4/04		BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD Regulation 12-11-504 & 12-11-505	C	Purge Gas Flow Rate

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A9 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-19 (ST-2103) – NORTH FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		N	12/4/03 (if video monitor installed by 1/1/03)		BAAQMD Regulation 12-11-507	C	1 frame per minute image video recording

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A10 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-21, S-22 (F301, F351)– PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	Y		400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition# 19466 Part 10	P/SA	Source Test
CO	BAAQMD Condition # 21233 Part 9	N	1/1/05	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N	1/1/05 for Cond# 21233	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Condition # 10574 Part 32	Y		28 ppmv CO (dry, 3% O_2), 8-hour average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Fuel Flow	BAAQMD Condition # 10574 Part 37	Y		106 MM therms/year combined limit for any consecutive 365 day period	BAAQMD Regulation 9-10-502.2;	C	Fuel Flowmeter
H_2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A10 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-21, S-22 (F301, F351)– PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H_2S	BAAQMD Condition # 10574 Parts 13 and 17	Y		100 ppmv, averaged over a 24-hr calendar day and 160 ppmv averaged over any 3-hr period	BAAQMD Condition # 10574 Part 15	C	H_2S analyzer on fuel gas
NO_x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM and Alternative Compliance Plan
NO_x	BAAQMD Condition # 10574 Part 31	Y		60 ppmv (dry, 3% O_2), averaged over consecutive 24-hour period	BAAQMD Condition # 10574 Part 31	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A10 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-21, S-22 (F301, F351)– PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
O_2		N	1/1/05 for 21233 Part 2	No limit	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	BAAQMD Condition # 10574 Part 21	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A
Total Reduced Sulfur	BAAQMD Condition # 10574 Part 14	Y		51 ppmv of total reduced sulfur, average over any consecutive four quarter period	BAAQMD Condition # 10574 Part 15	C	H_2S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A11 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-23 (F401)– PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
CO	BAAQMD Condition # 21233 Part 9	N	1/1/05	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N	1/1/05 for 21233 Part 8	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
Fuel Flow	BAAQMD Condition # 14318 Part 4	Y		200 MM Btu/hr; 185 MM Btu/calendar day	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
H_2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 14318 Part 5	Y		Fuel gas H_2S concentration limited to 160 ppm, rolling 3-hour average	BAAQMD Condition # 14318 Part 5	C	H_2S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A11 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-23 (F401)– PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-301	Y		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
NO_x	BAAQMD Condition # 14318 Part 2	Y		40 ppm NO_x (dry, 3% O_2), 8-hour average	BAAQMD Condition #14318 Part 3	C	CEM
O_2		N	1/1/05 for 21233 Part 2	No limit	BAAQMD Condition # 14318 Part 3 BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A11 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-23 (F401)– PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

Table VII – A12 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-25, S-30, S-31, S-32, S-33 (F701, F2901, F2902, F2903, F2904) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		20.15 MM therms/year (S-25); 40.56 MM therm/ year combined limit for S-30, S-31, S-32, S-33	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A12 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-25, S-30, S-31, S-32, S-33 (F701, F2901, F2902, F2903, F2904) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM And Alternative Compliance Plan
O_2		N	1/1/05 for 21233 Part 2	No limit	BAAQMD 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM
CO	BAAQMD Condition # 21233 Part 9	N	1/1/05	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A12 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-25, S-30, S-31, S-32, S-33 (F701, F2901, F2902, F2903, F2904) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N	1/1/05	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O_2). Operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

Table VII – A13.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-36, S-48, S-56 (SG-701, SG-1031, SG-401) – WASTE HEAT BOILERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grains/dscf @ 6% O_2	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A13.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-43; S-44; S-46 –TURBINES (GT-401; GT-701; GT-1031)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-9-301.1	Y		55 ppmv @15% O_2 (dry) for refinery fuel gas, average over any consecutive 3-hour period	BAAQMD Condition # 19466 Part 11	P/SA	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A14.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-37 – WASTE HEAT BOILER (SG-702)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Condition # 16386 Part 1	Y		9 ppmv @15% O_2 (dry), averaged over any consecutive 3-hour period	BAAQMD Condition # 16386 Part 6	C	NOx CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

Table VII – A14.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-45 –TURBINE (GT-702)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-9-301.3;	Y		9 ppmv @15% O_2 (dry), averaged over any consecutive 3-hour period	BAAQMD Regulation 9-9-501; BAAQMD Condition # 16386 Part 6	C	NO_x CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A14.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-45 –TURBINE (GT-702)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

Table VII – A15 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-40 (SG2301) - STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
CO	BAAQMD Condition # 21233 Part 9	N	1/1/05 for 21233 Part 8	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N	1/1/05 for 21233 Part 8	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Condition # 9296 Part D3	Y		400 ppmv (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A15 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-40 (SG2301) - STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Condition # 9296 Part D7	Y		218 MM Btu/hour	BAAQMD Regulation 9-10-502.2;	C	Fuel Flowmeter
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD 9-10-502.2;	C	Fuel Flowmeter
H_2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
NO_x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A15 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-40 (SG2301) - STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
NO_x	BAAQMD Condition # 9296 Part D2	Y		30 ppmv (dry, 3% O_2) averaged over consecutive 12-month period	BAAQMD Regulation 9-10-502.1	C	CEM
O_2		Y	1/1/05 for 21233 Part 2	No Limit	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A
Total Reduced Sulfur	BAAQMD Condition # 9296 Part D4	Y		51 ppmv of total reduced sulfur, annualized daily average (calendar year)	BAAQMD Condition # 9296 Part D6	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A16 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-41 (SG2302) - STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 21233 Part 9	N	1/1/05	Any two tests ≥200 ppmv (dry, 3% O_2) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation9-10-305	N	1/1/05 for 21233 Part 8	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O_2), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
H_2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A16 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-41 (SG2302) - STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculation using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
O_2		N	1/1/05 for 21233 Part 2	No limit	BAAQMD 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A16 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-41 (SG2302) - STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

Table VII – A17 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-42 (F1060) – PROCESS FURNACES

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	BAAQMD Regulation 9-10-112	N		90,000 therms/year during each consecutive 12-month period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A18 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-173 (F902)– PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N	1/1/05 for 21233 Part 7A	400 ppmv (dry, 3% O_2), operating day average	BAAQMD Regulation 9-10-502 Condition # 19466 Part 10 and BAAQMD Condition # 21233 Part 7A	P/A	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		1.93 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
H_2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
NO_x	BAAQMD Regulation 9-10-301	N	1/1/05 for 21233 Part 7A	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 7A	P/A P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A18 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-173 (F902)– PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Regulation 2-6-503 BAAQMD Condition # 19466 Part 14	P/A	Source Test and Alternative Compliance Plan
NOx	BAAQMD Condition # 254 Part 1	Y		40 ppm (dry, 3% O_2), average of 3 consecutive 30-minute test runs	BAAQMD Condition # 254 Part 3	P/SA	Source Test
O_2		N	1/1/05 for 21233 Part 7A	No limit	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 7A	P/A	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A19 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-220 (F4460) –PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 21233 Part 9	C	CEM
CO	BAAQMD Condition # 10574 Part 24	Y		28 ppmv (dry, 3% O_2), 8-hour average (0.02 lb/MMBtu)	BAAQMD Condition # 21233 Part 9	C	CEM
Fuel Flow	BAAQMD Condition #10574 Part 29	Y		28.908 MM therms/year	BAAQMD Regulation 9-10-502.2; BAAQMD Condition # 10574 Part 19	C	Fuel Flowmeter
H_2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 10574 Part 13	Y		100 ppmv H_2S, averaged over a 24-hour calendar day and 160 ppm H_2S averaged over 3 hours	BAAQMD Condition # 10574 Part 15	C	H_2S analyzer on fuel gas
NO_x	BAAQMD Regulation 9-3-303	Y		125 ppm NOx for gaseous fuels, average of 3 consecutive 30-minute test runs	Monitoring subsumed by BAAQMD Regulation 9-10-502 monitoring. See permit shield.	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A19 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-220 (F4460) –PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions # 19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO_x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
NO_x	40 CFR 60 Subpart Db 60.44b(a); 60.44b(e)	Y		Natural gas or diesel: LHRR: 0.10 lb/MMBTU HHRR: 0.20 lb/MMBTU	40 CFR 60.48b(b)(1)	C	CEM
NO_x	BAAQMD Condition # 10574 Part 23	Y		10 ppmv (dry, 3% O_2), 3-hour average (0.0118 lb/MMBtu)	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 10574 Part 27	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A19 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-220 (F4460) –PROCESS FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
O_2		N	1/1/05 for 21233 Part 2	No limit	BAAQMD Regulation 9-10-502.1; BAAQMD Condition # 10574 Part 27 BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A
PM	BAAQMD Condition # 10574 Part 21	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	None	N	N/A
Total reduced sulfur	BAAQMD Condition # 10574 Part 14	Y		51 ppmv, averaged over any four consecutive quarters	BAAQMD Condition # 10574 Part 15	C	H_2S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A20 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-237 (SG1032) –STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 16027–Part 13	Y		50 ppmv (dry, 3% O_2), averaged over 8 hours	BAAQMD Condition # 16027 Part 22	P/A	Source Test
Fuel Flow	BAAQMD Condition # 16027 Part 18	Y		25.0536 MM therms/year	BAAQMD Condition # 16027 Part 9	C	Fuel Flowmeter
H_2S	BAAQMD Condition # 16027 Part 3	Y		100 ppmv H_2S, averaged over a 24-hour calendar day and 160 ppm H_2S averaged over any 3-hour period	BAAQMD Condition # 16027 Part 5	C	H_2S analyzer on fuel gas
H_2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
NO_x	40 CFR 60 Subpart Db 60.44b(a); 60.44b(e)	Y		Natural gas or diesel: LHRR: 0.10 lb/MMBTU HHRR: 0.20 lb/MMBTU	40 CFR 60.48b(b)(1)	C	CEM
NO_x	BAAQMD Condition # 16027 Part 12	Y		9 ppmv (dry, 3% O_2),averaged over 3 consecutive hours	BAAQMD Condition # 16027-16	C	CEM
O_2		N		No limit	BAAQMD Condition # 16027 Part 16	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A20 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-237 (SG1032) –STEAM GENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspections
PM	BAAQMD Condition # 16027 Part 10	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspections
Total Reduced Sulfur	BAAQMD Condition # 16027 Part 4	Y		51 ppmv, averaged over any consecutive four-quarter period	BAAQMD Condition # 16027 Part 5	C	H_2S analyzer on fuel gas

Table VII – A21 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-240, S-241, S-242 (P-2401C, P-2602, P-2608B) – EMERGENCY STANDBY DIESEL IC ENGINES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Fuel Sulfur Content	BAAQMD Condition 18748 Part 1	Y		Sulfur content of liquid fuel ≤ 0.05% by weight	BAAQMD Condition # 18748 Part 1	P/E	Diesel Fuel Certification by supplier for each lot
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours each per calendar year for reliability testing	BAAQMD Regulation 9-8-530	C	Totalizing meter for hours of operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A21 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-240, S-241, S-242 (P-2401C, P-2602, P-2608B) – EMERGENCY STANDBY DIESEL IC ENGINES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
PM	BAAQMD Regulation 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 (GT-4901) –TURBINE (COGEN PHASE I)
S-1032 (GT-4951) - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-9-301.3	Y		9 ppmv @ 15% O_2 (dry)	BAAQMD Regulation 9-9-501	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
Sulfur	40 CFR 60 Subpart GG 60.333(b)	Y		0.8 percent by weight	40 CFR 60 Subpart GG 60.334(b)(2)	C	TRS CEM on fuel gas
CO	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 513.216 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
CO	BAAQMD Condition # 19177 Part 18(b) for firing natural gas exclusively and 19(d)	Y		Normal Operations: 6 ppmv (dry, 15% O_2), averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
CO	BAAQMD Condition # 19177 Part 19(c)	Y		Normal Operations: < 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177 Part 38	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 (GT-4901) –TURBINE (COGEN PHASE I)
S-1032 (GT-4951) - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effectiv e Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Firing hours	BAAQMD Condition # 19177 Part 10	Y		Commissioning Period: Firing hours without NO_x and CO abatement <250 hours	BAAQMD Condition # 19177 Part 8	C	Data recorder
Fuel Flow	BAAQMD Condition # 19177 Part 8	Y		Commissioning Period Fuel Flow Requirement	BAAQMD Condition # 19177 Part 8	C	Fuel Flow Meter
Fuel flow	BAAQMD Condition # 19177 Part 14	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 810 MM Btu/hr, (any rolling 3-hour average). Heat rate input of gas turbine < 500 MM Btu/hr	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 15	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator <19,400 MM Btu/calendar day.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 16	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 (GT-4901) –TURBINE (COGEN PHASE I)
S-1032 (GT-4951) - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H_2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas H_2S <160 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177 Part 35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report
NH_3	BAAQMD Condition # 19177 Part 18(c) for firing natural gas exclusively and 19(e)	Y		Normal Operations: 10 ppmv (dry, 15% O_2) averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 21	P/E	Initial source test
NO_x	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 360.34 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
NO_x	BAAQMD Condition # 19177 Part 18(a)(1) for S-1030	Y		Normal Operations: 2.5 ppmv (dry, 15% O_2), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177 Part 38	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 (GT-4901) –TURBINE (COGEN PHASE I)
S-1032 (GT-4951) - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Condition # 19177 Part 18(a)(2) for S-1032	Y		Normal Operations: 2.0 ppmv (dry, 15% O_2), 1-hour average when firing natural gas exclusively; 3-hour transition period between fuel gas and natural gas firing: 2.5 ppmv (dry, 15% O_2),	BAAQMD Condition # 19177 Part 38	C	CEM
NO_x	BAAQMD Condition # 19177 Parts 19(a) & 19(b)	Y		Normal Operations: < 7.29 lb/hour and 2.5 ppmv (dry, 15% O_2), averaged over any 3-clock hours	BAAQMD Condition # 19177 Part- 38	C	CEM
PM_{10}	BAAQMD Condition # 19177 Part 19(h)	Y		Normal Operations: < 4.65 lb/hour averaged over any consecutive 24-hour period or 1.55 lb/hour averaged over a calendar year with an upward adjustment limit of 4.65 lb/hour based on source test results	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
POC (as CH_4)	BAAQMD Condition # 19177 Part 18(d) for firing natural	Y		Normal Operations: < 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 (GT-4901) –TURBINE (COGEN PHASE I)
S-1032 (GT-4951) - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	gas exclusively and Part 19(f)				BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
SO_2	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 516 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
SO_2	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: < 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM), including SO_3 and ammo-nium sulfates	BAAQMD Condition # 19177 Part 20	Y		Normal Operations: < 7 tons in any consecutive four quarters	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177 Part 18(e) - SO_2 & Part 18(f) -PM_{10}	Y		Normal Operations: Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177 Part 35	C	Fuel gas monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 (GT-4901) –TURBINE (COGEN PHASE I)
S-1032 (GT-4951) - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Total reduced sulfur	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas TRS < 35 ppm (rolling consecutive 365 day average) and fuel gas TRS <100 ppm (rolling 24-hour average)	BAAQMD Condition # 19177 Part 35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 513.216 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 19177 Part 18(b) for firing natural gas exclusively and Part 19(d)	Y		Normal Operations: 6 ppmv (dry, 15% O_2), averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
CO	BAAQMD Condition # 19177- Part 19(c)	Y		Normal Operations: < 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177 Part 38	C	CEM
Firing hours	BAAQMD Condition # 19177 Part 10	Y		Commissioning Period: Firing hours without NO_x and CO abatement <250 hours	BAAQMD Condition # 19177 Part 8	C	Data recorder
Fuel Flow	BAAQMD Condition # 19177 Part 8			Commissioning Period Fuel Flow Requirement	BAAQMD Condition # 19177 Part 8	C	Fuel Flow Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel flow	BAAQMD Condition # 19177 Part 14	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 810 MM Btu/hr, (any rolling 3-hour average). Heat rate input of gas turbine < 500 MM Btu/hr	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 15	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 19,400 MM Btu/calendar day.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 16	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H_2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H_2S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas H_2S <160 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177 Part 35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report
NH_3	BAAQMD Condition # 19177 Part 18(c) for firing natural gas exclusively and Part 19(e) on refinery fuel gas	Y		Normal Operations: 10 ppmv (dry, 15% O_2) averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 21	P/E	Initial Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Regulation 9-3-303			125 ppm NOx for gaseous fuels, average of 3 consecutive 30-minute test runs	Monitoring subsumed by BAAQMD Condition #19177 Part 38 monitoring. See permit shield.	N	N/A
NO_x	40 CFR 60 Subpart Db 60.44b(l)(1)	Y		Natural gas: 0.20 lb/MMBTU	40 CFR 60 Subpart Db 60.48b(b)(1) (Note: 60.48(e)(2) and (3) are subsumed. See permit shield)	C	CEM
					40 CFR 60 Subpart Db 60.46b(f)(1)	P/E	Initial Performance Test
NO_x	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 360.34 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
NO_x	BAAQMD Condition # 19177 Part 18(a)(1) for S-1031	Y		Normal Operations: 2.5 ppmv (dry, 15% O_2), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177 Part 38	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO_x	BAAQMD Condition # 19177 Part 18(a)(2) for S-1033	Y		Normal Operations: 2.0 ppmv (dry, 15% O_2), 1-hour average when firing natural gas exclusively; 3-hour transition period between fuel gas and natural gas firing: 2.5 ppmv (dry, 15% O_2),	BAAQMD Condition # 19177 Part 38	C	CEM
NO_x	BAAQMD Condition # 19177 Parts 19(a) & 19(b)	Y		Normal Operations: < 7.29 lb/hour and 2.5 ppmv (dry, 15% O_2), averaged over any 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	N/A
PM_{10}	BAAQMD Condition # 19177 Part 19(h)	Y		Normal Operations: < 4.65 lb/hour averaged over any consecutive 24-hour period or 1.55	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				lb/hour averaged over a calendar year with an upward adjustment limit of 4.65 lb/hour based on source test results	BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
POC (as CH_4)	BAAQMD Condition # 19177 Part 18(d) for firing natural gas exclusively and 19(f) for refinery fuel gas	Y		Normal Operations: < 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
SO_2	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 516 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
SO_2	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: < 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177 Parts 23 and 25	D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM),	BAAQMD Condition # 19177 Part 20	Y		Normal Operations: < 7 tons in any consecutive four quarters	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
including SO_3 and ammonium sulfates					BAAQMD Condition # 19177 Part 40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177 Part 18(e) - SO_2 & part 18(f) -PM_{10}	Y		Normal Operations: Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas TRS < 35 ppm (rolling consecutive 365 day average) and fuel gas TRS <100 ppm (rolling 24-hour average)	BAAQMD Condition # 19177 Part 35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition #19177 Part 36	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A23 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-243 (DG-5101) – EMERGENCY STANDBY DIESEL IC ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Fuel Sulfur Content	BAAQMD Condition 18744 Part 1	Y		Sulfur content of liquid fuel ≤ 0.05% by weight	BAAQMD Condition # 18744 Part 1	P/E	Diesel Fuel Certification by supplier for each lot
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours per calendar year for reliability testing	BAAQMD Regulation 9-8-530	C	Totalizing meter for hours of operation
PM	BAAQMD Regulation 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B1 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-8 (CYC-1901) – COKE TRANSPORT

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 Regulation6 -301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9	P/A	Source Test

Table VII – B2 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-11 (TK-2061) - ACTIVATED CARBON BIN

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B2 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-11 (TK-2061) - ACTIVATED CARBON BIN

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Thruput	BAAQMD Condition # 9897 Part 1	Y		Annual throughput limit of 292 tons activated carbon	BAAQMD Condition # 9897 Part 2	P/M	Record

Table VII – B3 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-174, S-175 (TK-2321, TK-2322) - LIME SLURRY TANKS

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
FP	BAAQMD Regulation 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B4 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-176 (TK-2325) - BRINE SATURATOR TANK

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/E when dry salt is added to the tank	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/E when dry salt is added to tank	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

Table VII – B5 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-209 (LD-209) – METHANOL/ETHANOL RAILCAR UNLOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Methanol/ ethanol Deliveries	BAAQMD Condition #9296 Part B4	Y		2920 trucks per rolling 12-month period	BAAQMD Condition #9296 Part B9	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B6 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-232 – ESP FINES VACUUM CONVEYING SYSTEM

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
Throughput	BAAQMD Condition # 12727 Part 1	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727 Part 5	P/M	Record

Table VII – B7 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-233 – ESP FINES STORAGE BIN

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Throughput	BAAQMD Condition # 12727 Part 2	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727 Part 5	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B8 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-1027 – PENTANE RAILCAR LOADING/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
Throughput	BAAQMD Condition # 17835 Part 1	Y		Throughput less than 22,500 barrels per day, quarterly average	BAAQMD Condition # 17835 Part 3	P/Q	Record
Throughput	BAAQMD Condition # 17835 Part 2	Y		Throughput less than 8.2125 million barrels in any consecutive 4-quarter period	BAAQMD Condition # 17835 Part 3	P/Q	Record

Table VII – B9.1 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-201 (LD-2051) VACUUM TRUCK LOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	Regulation 8-2-301	C	Continuous HC Analyzer

Table VII – B9.2 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-202 (LD-2069) VACUUM TRUCK LOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	Regulation 8-2-301	C	Continuous HC Analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C1 Miscellaneous
Applicable Limits and Compliance Monitoring Requirements
S-27 – PFR REGENERATION FACILITIES

Type of Limit	Citation of Limit	FE Y/N	Future Effectiv e Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation6 -301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A

Table VII – C2 Miscellaneous
Applicable Limits and Compliance Monitoring Requirements
S-157 – SULFUR STORAGE PIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

Table VII – C3 Miscellaneous
Applicable Limits and Compliance Monitoring Requirements
S-159 (SG -701/GT-701) – LUBE OIL RESERVOIR

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C3 Miscellaneous
Applicable Limits and Compliance Monitoring Requirements
S-159 (SG -701/GT-701) – LUBE OIL RESERVOIR

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 Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	None	N	N/A

Table VII – C4.1 Miscellaneous
Applicable Limits and Compliance Monitoring Requirements
S-160 (C-1031) - SEAL OIL SPARGER

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C4.2 Miscellaneous
Applicable Limits and Compliance Monitoring Requirements
S-167 AND S-168 (C-401, C-2901) - SEAL OIL SPARGERS

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to flare gas stream - BAAQMD Condition # 19466 Part 13)	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N (Vented to flare gas stream - BAAQMD Condition # 19466 Part 13)	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N (Vented to fuel gas stream - BAAQMD Condition # 19466 Part 13)	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C5 Cooling Tower
Applicable Limits and Compliance Monitoring Requirements
S-29 – 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain per dscf	None	N	None
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
Hex Cr	BAAQMD 11-10-302.2	Y		0.15 mg/liter of circulating cooling water	Regulation 11-10-503.2	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D1
Applicable Limits and Compliance Monitoring Requirements
S-1004 CATALYTIC REFORMER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition 18794, Part 1a	Y		Total throughput of Naphtha shall not exceed 12,739 KB/Year (34.9 KB/D annual average)	BAAQMD Condition 18794, Part 2b	P/M	Records
Throughput	BAAQMD Condition 18794, Part 1b	Y		Total throughput of Naphtha shall not exceed 39.8 KB/Day (maximum)	BAAQMD Condition 18794, Part 2a	P/M	Records
HCl	MACT Subpart UUU 63.1567(a)(1)	Y		HCl emissions of 10 ppmv dry at 3%O_2	MACT Subpart UUU 63.1567(b)(2)	P/E	Performance test
pH	40 CFR 63.1567(a)(2)	Y		Daily average pH of water exiting wet scrubber greater than limit established uring performance test	40 CFR 63.1567(b)(1)	C	CPMS of pH of water exiting wet scrubber
L/G Ratio	40 CFR 63.1567(a)(2)	Y		Daily average L/G ratio greater than limit established during performance test	40 CFR 63.1567(b)(1)	C	CPMS of liquid and vapor rates to wet scrubber (L/G ratio)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D2
Applicable Limits and Compliance Monitoring Requirements
S-1006 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
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition 815, Part 1			<=135,000 barrels per day(any single day) crude feed	BAAQMD Condition 815, Part 2	P/D	Records
					BAAQMD Condition 815, Part 2	P/M	Report

Table VII – D3
Applicable Limits and Compliance Monitoring Requirements
S-1007 ALKYLATION UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition 10574, Part 51	Y		<=22,800 barrels per day of alkylate throughput	None	N/A	None

VII. Applicable Limits and Compliance Monitoring Requirements

POC	BAAQMD Condition 10574, Part 52	Y		<= 0.174 ton/year fugitive POC emissions for Alkylate Production Project (A/N 3782) based on installation of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. (Limit may be adjusted based on the final fugitive component count after the Alkylate Production Project (A/N 3782) is installed)	None	N/A	None
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D4
Applicable Limits and Compliance Monitoring Requirements
S-1010 HYDROGEN PLANT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
POC	BAAQMD Condition 15512, Part 1	Y		Route POC from deaerator vents associated with S-1010 downstream to S-40 and/or S-41 boilers at all times when S-1010 is in operation	None	N/A	None

Table VII – D5
Applicable Limits and Compliance Monitoring Requirements
S-1012 DIMERSOL UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D6
Applicable Limits and Compliance Monitoring Requirements
S-1014 VIRGIN LIGHT ENDS SPLITTER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

Table VII – D7
Applicable Limits and Compliance Monitoring Requirements
S-1024 LIGHT CAT NAPHTHA HYDROFINER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition 9296, Part E1	Y		<= 24,000 barrels per day, calendar year average	BAAQMD Condition 9296, Part E2	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D8
Applicable Limits and Compliance Monitoring Requirements
S-211 ALKYLATE DEBUTANIZER T-4302(AT THE FORMER MTBE UNIT)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition 10574, Part 51	Y		<=22,800 barrels per day of alkylate throughput	None	N/A	None
POC	BAAQMD Condition 10574, Part 52	Y		<= 0.174 ton/year fugitive POC emissions for Alkylate Production Project (A/N 3782) based on installation of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. (Limit may be adjusted based on the final fugitive component count after the Alkylate Production Project (A/N 3782) is installed)	None	N/A	None
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E1 Fuel Dispensing
Applicable Limits and Compliance Monitoring Requirements
S-127 – DIESEL DISPENSING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				None	None	N	N/A

Table VII – E2 Fuel Dispensing
Applicable Limits and Compliance Monitoring Requirements
S-165 – GASOLINE DISPENSING FACILITY G#6764

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD Regulation 8-7-313.1	Y		Fugitives $\leq$ 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-313.2	Y		Spillage $\leq$ 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-313.3	Y		Liquid Retain + Spitting $\leq$ 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	None	Y		None	BAAQMD Regulation 8-7-503	P/M	Records
VOC	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N	
VOC	BAAQMD Regulation 8-7-301.6 8-7-302.5	Y		Leak free and vapor tight fugitive components	BAAQMD Regulation 8-7-301.13	A	Vapor Tightness Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E2 Fuel Dispensing
Applicable Limits and Compliance Monitoring Requirements
S-165 – GASOLINE DISPENSING FACILITY G#6764

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD Regulation 8-7-302.14	Y		None	BAAQMD Regulation 8-7-302.14	A	Backpressure Test

Table VII – F Marine Loading
Applicable Limits and Compliance Monitoring Requirements
S-129 – MARINE LOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Dry Dock Leak Test	BAAQMD Condition # 98 Part-9	Y		Vessel leak test at 80% of lowest relief valve set pressure every 3 years in dry dock	BAAQMD Condition # 98 Part-9	P/Every 3 Years	Record
Fugitive Emissions Inspection	BAAQMD Condition # 98 Part-11	Y		Fugitive emissions inspection of all above-deck equipment	BAAQMD Condition # 98 Part-11	P/Q	On-board Method 21 inspection
Leak Test	BAAQMD Condition # 1709 Part-10	Y		<5% leakage rate for vessels loaded more than 2 times/year	BAAQMD Condition # 1709 Part-9	Every 36 months for each vessel loaded more than 2 times/year	Dry-dock pressure test
Leak Test	BAAQMD Condition # 1709 Part-12	Y		10,000 ppm leak test on above-deck equipment for vessels loaded more than 2 times/year	BAAQMD Condition # 1709 Part-12	Every 10th load for each vessel loaded more than 2 times/year	On-board Method 21 inspection
Loading Pressure	BAAQMD Condition # 98 Part-7	Y		Highest vessel lightering pressure < 80% at lowest relief valve set pressure	BAAQMD Condition # 98 Part-8	C	Pressure recorder

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F Marine Loading
Applicable Limits and Compliance Monitoring Requirements
S-129 – MARINE LOADING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Loading Pressure	BAAQMD Condition # 1709 Part-8	Y		Vessel loading pressure <80% of lowest relief valve set pressure	BAAQMD Condition # 1709 Part-6	C	Pressure recorder
PRU Fugitives Survey	BAAQMD Condition # 98 Part-12	Y		PRU fugitive inspection at 20% and 60% of cargo transfer	BAAQMD Condition # 98 Part-12	Each lightering event	On-board Method 21 inspection
VOC	BAAQMD Condition # 98 Part-5	Y		Lightering emissions for crude deliveries to Benicia < 48 tons per year	BAAQMD Condition # 98 Part-2, 98 Part-3, and 98 Part-4	P/Q	Report
VOC	BAAQMD Regulation 8-44-301.1; BAAQMD Condition # 1709 Part-3	Y		POC Emission $\leq$ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	BAAQMD Condition # 1709 Part-5	C	Parametric monitor
VOC	BAAQMD Regulation 8-44.301.2; BAAQMD Condition # 1709 Part-3	Y		Controlled $\geq$ 95% weight	BAAQMD Condition # 1709 Part-5	C	Parametric monitor
VOC	BAAQMD Condition # 1709 Part-1	Y		Annual mass limit for Mogas loading (43.4 tons/yr excluding shore-side fugitive emissions)	BAAQMD Condition # 1709 Part-7	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H1.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-151 (WWT2001) – WASTEWATER RETENTION PONDS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene		Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	40 CFR 61 Subpart FF 61.355(k)(1)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD Regulation 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD Regulation 8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H1.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-156 (WWT-2000) – WASTEWATER RETENTION PONDS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene		Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	40 CFR 61 Subpart FF 61.355(k)(1)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD Regulation 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD Regulation 8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

Table VII – H2.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B. BIOX-2001, TK-2083) – BIOTREATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		Y		Monitoring of Waste Treatment Unit	40 CFR 61 Subpart FF 61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	40 CFR 61 Subpart FF 61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H2.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-214, S-215 – BIOTREATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		Y		Monitoring of Waste Treatment Unit	40 CFR 61 61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	40 CFR 61 61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

Table VII – H3 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-161 (SEW-2001) – SEWER PIPELINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-8-312	N	1/1/2006	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 8-8-402.2	N	10/1/2005	WW collection system components; vapor tight	BAAQMD 8-8-402.2 8-8-504 8-8-603	Initial Inspection	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N	1/1/2006 until 1/1/2007	Uncontrolled WW collection system components; vapor tight	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/Bi-monthly	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H3 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-161 (SEW-2001) – SEWER PIPELINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-8-313.2	N	1/1/2006 until 1/1/2007	Uncontrolled WW collection system components; not vapor tight on regular bi-monthly 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 bi-monthly inspection schedule	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N	1/1/2007	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	1/1/2007	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	10/1/2005	Wastewater Inspection and Maintenance Plan Records	BAAQMD 8-8-505	P/E Each inspection and repair	Records
Benzene in Waste	40 CFR 61.342 (e)(2)(i)	Y		Uncontrolled and Controlled Benzene < 6 Mg/yr	40 CFR 61.356(b)(4)	P/A	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H4.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-188 (VARIOUS) – CPS UNITS

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 Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD Regulation 8-8-302.6 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAA QMD Regul ation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
None	**40 CFR 61 Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d). Emission point routed to fuel gas system.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H4.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-194, S-195 (2006, 2056) – CPS UNITS

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 # 13319 Part 2	Y		50 ppm (3% O_2, dry)	BAAQMD Condition # 13319 Part 5 & 6	C	Temperature Monitor
NMHC Limit	BAAQMD Condition # 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36) < 15 lb/day, averaged over the month	BAAQMD Condition # 13319 Part 17	P/M	Records
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319 Part 18	C	VOC analyzer and flow meter
NOx	BAAQMD Condition # 13319 Part 1	Y		25 ppm (3% O_2, dry)	BAAQMD Condition # 13319 Part 5 & 6	C	Temperature Monitor
Outlet Tempera-ture	BAAQMD Condition # 13319 Part 4	Y		Thermal Oxidizer: 1400 F minimum outlet temperature averaged over 3-consecutive hours	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	BAAQMD Regulation 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD Regulation 8-8-302.6 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H4.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-194, S-195 (2006, 2056) – CPS UNITS

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 Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	BAAQMD Condition # 13319 Part 5 & 6	C	Temperature Monitor
VOC	BAAQMD Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	BAAQMD Condition # 13319 Part 18	C	VOC analyzer and flow meter
VOC	BAAQMD Condition # 13319 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition #13319 Parts 5 & 6	C	Temperature Monitor
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	40 CFR 61 61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR 61 61.347 (b)	P/Q	Visual Inspection
VOC	40 CFR 61 61.349(a) (1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR 61 61.354 (f)(1)	P/M	Visual inspection
VOC	40 CFR 61 61.349(a) (2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR 61 61.354(c)(1)	C	Temperature monitor
VOC	40 CFR 61 61.349(a) (2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR 61 61.354(d)	P/D	VOC analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H4.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-194, S-195 (2006, 2056) – CPS UNITS

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 61 61.349(f)	Y		No visible openings on CVS and control device	40 CFR 61 61.349(f)	P/Q	Visual inspection
Waste Water Flow	BAAQMD Condition # 13319 Part 9	Y		3000 gpm	BAAQMD Regulation 2-6-409.2.2	C	Wastewater flow meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H5.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-189 (VARIOUS) – ISF UNITS

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 Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70% by weight.	None	N	No monitoring – vented to fuel gas recovery system
None	**40 CFR 61 Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d). Emission point routed to fuel gas system.**						

Table VII – H5.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-197, S-198 (2007, 2057) – ISF UNITS

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 # 13319 Part 2	Y		50 ppm (3% O_2, dry)	BAAQMD Condition # 13319 Parts 5 & 6	C	Temperature Monitor
NMHC Limit	BAAQMD Condition # 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 13319 Part 17	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H5.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-197, S-198 (2007, 2057) – ISF UNITS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319 Part 18	C	CEM and flow meter
NOx	BAAQMD Condition # 13319 Part 1	Y		25 ppm (3% O_2, dry)	BAAQMD Condition # 13319 Parts 5 & 6	C	Temperature Monitor
Outlet Tempera-ture	BAAQMD Condition # 13319 Part 4	Y		Thermal Oxidizer: Minimum temperature of 1400 F averaged over 3-consecutive hours	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices.	None	N	N/A
VOC	BAAQMD Regulation 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight.	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	BAAQMD Condition # 13319 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition #11319 Parts 5 & 6	C	Temperature Monitor
VOC	40 CFR 61 61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR 61 61.347 (b)	P/Q	Visual Inspection
VOC	40 CFR 61 61.349(a) (1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR 61 61.354 (f)(1)	P/M	Visual inspection
VOC	40 CFR 61 61.349(a) (2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR 61 61.354(c)(1)	C	Temperature monitor
VOC	40 CFR 61 61.349(a) (2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR 61 61.354(d)	P/D	VOC analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H5.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-197, S-198 (2007, 2057) – ISF UNITS

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 61 61.349(f)	Y		No visible openings on CVS and control device	40 CFR 61 61.349(f)	P/Q	Visual inspection
Waste water Flow	BAAQMD Condition # 13319 Part 9	Y		3000 gpm	BAAQMD 2-6-409.2.2	C	Waste Water Flow Meter

Table VII – H6 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-192 (TK-2052) – BIOX SLUDGE THICKENER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure no greater than 0.5 psia.	BAAQMD Regulation 8-5-501.1	N	Record

Table VII – H7
Applicable Limits and Compliance Monitoring Requirements
S-217 , S-218 AND S-219 (TK-791NSD, TK-242SD, TK-131SD) – WASTEWATER BIOX SLUDGE

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 8-8 Organic Compounds—WASTEWATER (OIL/WATER SEPARATORS) Exempt per BAAQMD Regulation 8-8-113**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 8-18-301	Y		General equipment leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	None	P/E	Method 21 Inspection
POC	BAAQMD Regulation 8-18-300	Y		Valves, Pumps, Compressors, Connectors, PRDs, and General Equipment	BAAQMD Regulation 8-18-401.5	P/E (24 hrs after repair/mini-mization)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-302.1 8-18-302.2	N		Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.2 or 8-18-404	P/Q (footnote a)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-302.1 8-18-302.2	N		Inaccessible Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.3	P/A	Method 21 Inspection
VOC	BAAQMD 8-18-302.3 8-18-306.2 8-18-306.3 8-18-306.4	N	7/1/04	Inspect non-repairable valves	BAAQMD 8-18-401.9	P/Q	Method 21 inspection
VOC	BAAQMD 8-18-302.3 8-18-306.4	N	7/1/04	Mass emission rate </= 15 lb/day for valve with major leak (>/= 10,000 ppm)	BAAQMD 8-18-306.4 8-18-604	P/E within 45 days of leak discovery	Mass Emission Sampling
VOC	BAAQMD 8-18-302.3 8-18-306.4	N	7/1/04	Mass emission rate </= 15 lb/day for valve with major leak (>/= 10,000 ppm)	BAAQMD 8-18-401.10 8-18-604	P/A	Mass Emission Sampling
POC	BAAQMD Regulation 8-18-303.1 8-18-303.2	N		Pump and compressor leak ≤ 500 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.2	P/Q	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.6	Every 5 years (footnote b)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulations 8-18-401.2 & 8-18-401.7	P/Q	Method 21 Inspection
POC	BAAQMD Regulation 8-18-305	Y		Inaccessible PRDs leak < 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulation 8-18-401.3	P/A	Method 21 Inspection
POC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulation 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-306.1	N		Valve, connector, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	BAAQMD Regulation 8-18-502.4	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 8-18-306.2 8-18-306.3 8-18-306.4	N	7/1/04	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	BAAQMD Regulation 8-18-502.4	P/Q	Report
POC	BAAQMD Regulation 8-18-307	Y		Equipment liquid leaks minimize in 24 hours, repair in 7 days	None	P/E	Records
POC		Y		Pumps and Compressors Evidence of Leak	BAAQMD Regulation 8-18-403	P/D	Visual Inspection
POC	SIP Regulation 8-18-302	Y		Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.2 or 8-18-404	P/Q (footnote a)	Method 21 Inspection
POC	SIP Regulation 8-18-302	Y		Inaccessible Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.3	P/A	Method 21 Inspection
POC	SIP Regulation 8-18-303	Y		Pump and compressor leak ≤ 500 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.2	P/Q	Method 21 Inspection
POC	SIP Regulation 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.6	Every 5 years (footnote b)	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	SIP Regulation 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
POC	SIP Regulation 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	SIP Regulation 8-18-502.4	P/Q	Report
POC	SIP Regulation 8-18-306.2	Y		Awaiting repair Valves ≤ 0.5% Pressure Relief ≤ 1% Pumps and Compressors ≤ 1%	SIP Regulation 8-18-502.4	P/Q	Report
POC	BAAQMD Regulation 8-28-303	N		Pressure Relief Devices to Meet Prevention Measures Procedures of BAAQMD 8-28-405.	None	N (one-time, completed)	N/A
POC	BAAQMD Regulation 8-28-304.1	N		Pressure Relief Device with reportable releases in 5-year period.	BAAQMD Regulations 8-28-304.1 & 8-28-405	P/E (90 day after release) P/E (120 day after release)	PHA & PMP Report Install tamper-proof indicators
POC	BAAQMD Regulation 8-28-304.2	N		After 2nd release in 5 years; Vent Pressure Relief Devices to an Abatement Device	BAAQMD Regulation 8-28-304.2	P/E (1 year after release)	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC		N		Pressure Relief Device Release Event Reporting	BAAQMD Regulation 8-28-401	P/E (1 working day and 30 days after release)	Report
POC	BAAQMD Regulation 8-18-305	Y		Pressure Relief Device with reportable releases $\leq$ 500 ppm	BAAQMD Regulations 8-28-402 & 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection w/Report
POC	BAAQMD Regulation 11-7-213	N		Pumps leak $\leq$ 10,000; or 1st repair attempt 5 day, repaired 15 days	BAAQMD Regulation 11-7-501	P/M	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Pump Leak Indicated by Dripping Liquid	BAAQMD Regulation 11-7-401	P/W	Visual Inspection
POC	BAAQMD Regulation 11-7-310.4	N		Pumps under "Delay of Repair" repaired within 6 months.	None	P/E	Records
POC	BAAQMD Regulations 11-7-213 and 11-7-307	N		Valves leak $\leq$ 10,000; or 1st repair attempt 5 day, repaired 15 days	BAAQMD Regulation 11-7-501	P/M	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Valves leak < 10,000 ppm 2 successive months w/o leaking.	BAAQMD Regulation 11-7-307.1	P/Q (if criteria met)	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Valves leak < 10,000 ppm 2 successive quarters w/< 2% leaking	BAAQMD Regulation 8-18-302	P/SA (if criteria met) (note c)	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 11-7-213	N		Valves leak < 10,000 ppm 5 successive quarters w/< 2% leaking.	BAAQMD Regulation 11-7-313.3	P/A (if criteria met) (note c)	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Pressure Relief Valves (liquid), flanges, connectors; leak $\leq$ 10,000; or 1st repair attempt 5 day, repaired 15 days	BAAQMD Regulation 8-18-304	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection
POC		N		Monitoring and Repair Reporting	BAAQMD Regulation 11-7-403	P/SA	Report
40 CFR 60; Subpart VV (SOCMI Equipment Leaks of VOC)							
POC	40 CFR 60.482-2 (b)(1)	Y		LL Pump leak < 10,000 ppm or 1st repair attempt 5dy, repaired 15 days, or put on delay of repair list	40 CFR 60.482-2 (a)(1)	P/M	Method 21 Inspection
POC	40 CFR 60.482-2 (b)(2)	Y		LL Pump leak Indicated by dripping liquid	40 CFR 60.482-2 (a)(2)	P/W	Visual Inspection
POC	40 CFR 60.482-2(e)	Y		Pump designated for "No detectable emissions" pursuant to 60.486(e), < 500 ppm	40 CFR 60.482-2(e)(3)	P/A	Method 21 Inspection
POC	40 CFR 60.482-3(d)	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both	40 CFR 60.482-3 (e)(1)	C or P/D	Sensor with audible alarm or checked daily
POC	40 CFR 60.482-3(i)	Y		Compressor designated for "No detectable emissions" pursuant to 60.486(e), < 500 ppm	40 CFR 60.482-3(i)(2)	P/A	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	40 CFR 60.482-4(a)	Y		Pressure relief valve (gas/vapor) not vented to abatement ≤ 500 ppm	None	P/E	Method 21 Inspection
POC	40 CFR 60.482-4(b)(1)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm after a pressure release event	40 CFR 60.482-4(b)(2)	P/E (5 days)	Method 21 Inspection
POC	40 CFR 60.482-7(b) 60.482-7(d)(1)	Y		Valve leak < 10,000 ppm or 1st repair attempt 5 day, repaired 15 days	40 CFR 60.482-7(a)	P/M	Method 21 Inspection
POC	40 CFR 60.482-7(b)	Y		Valve leak < 10,000 ppm; 2 successive months	40 CFR 60.482-7(c)(1)	P/Q	Method 21 Inspection
POC	40 CFR 60.482-7(f)	Y		Valve designated "No detectable emissions" leak < 500 ppm	40 CFR 60.482-7 (f)(3)	P/A	Method 21 Inspection
POC	40 CFR 60.482-7(h)	Y		Valve designated "Difficult to monitor (up to 3% of total valves)" leak < 500 ppm	40 CFR 60.482-7 (h)(3)	P/A	Method 21 Inspection
POC	40 CFR 60.482-8(b)	Y		Pumps and Valves (heavy liquid), Pressure Relief Devices (liquid), Flanges, Connectors leak < 10,000 ppm	40 CFR 60.482.8(a)	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection to confirm leak
POC	40 CFR 60.482-10 (g)	Y		Closed-vent systems leak ≤ 500 ppm or visible leak indication, or 1st repair attempt 5 day, repaired 15 days, or turnaround list	40 CFR 60.482-10 (f)(1)(ii)	P/A	Visual Inspection (hard-pipe systems)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	40 CFR 60.483-2	Y		Individual valve that measures <10,000 ppm for 2 consecutive quarters may be monitored semiannually, if in a process unit with 2 consecutive quarters <2% valves leaking ≥10,000 ppm.[c]	40 CFR 60.483-2(b)(2) (footnote c)	P/SA (if criteria are met)	Method 21 Inspection
POC	40 CFR 60.483-2	Y		Individual valve that measures <10,000 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm.[c]	40 CFR 60.483-2(b)(3) (footnote c)	P/A (if criteria are met)	Method 21 Inspection
		Y		SOCMI NSPS Fugitives I/M Program	40 CFR 60.487(d) and 60.487(f)	P/SA	Report
40 CFR 61; Subpart FF (Benzene Waste NESHAPS)							
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 63.345 (a)(1)(i)	Y		Container fittings leak ≤ to 500 ppm	40 CFR 63.345 (a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.347 (a)(1)(i)(A)	Y		O/W Separator fittings leak ≤ 500 ppm	40 CFR 61.347 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 61.349 (a)(1)(i)	Y		Closed-vent systems <500 ppm above background	40 CFR 61.349 (a)(1)(i)	P/A	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Footnotes to Table VII-I

[a] Valves are inspected pursuant to BAAQMD-approved Alternative Inspection Schedule that satisfies the requirements of BAAQMD Regulation 8-18-404. Valves that have not been found to be leaking for the five prior quarters are placed on the annual inspection schedule.

[b] Connectors are inspected pursuant to a BAAQMD-approved Connector Inspection Program that satisfies the requirements of BAAQMD Regulation 8-18-401.6. Under this program, 20% of all of the refinery's connectors are inspected each year.

[c] 40 CFR 60.483-2 (Subpart VV) and BAAQMD Regulation 11-7-313 alternative screening schedules for valves are analogous to the Valero Alternative Inspection Schedule (see footnote "a") with two exceptions: 40 CFR 60.483-2 uses a leak definition of 10,000 ppm VOC rather than 100 ppm TOC, and 40 CFR 60.483-2 requires that the percentage of valves leaking facility-wide (at 10,000 ppm) must have been less than 2% for the five-quarter time period. For process units covered by refinery MACT, 40 CFR 63.648(a)(2) allow the percentage leaking to be determined on a refinery-wide basis. This applies to all process units except NSPS process units except Dimersol, which is not subject to MACT. Finally, any valve subject to Subpart VV or to BAAQMD Regulation 11-7 must *individually* comply with BAAQMD Regulation 8-18-404 (5 quarters with no leaks at 100 ppm) in order to be allowed to be screened less frequently than quarterly. As a practical matter, Subpart VV and BAAQMD Regulation 11-7 are effectively less stringent than the Valero Alternative Inspection Schedule.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J3
Applicable Limits and Compliance Monitoring Requirements
S-86 (TK-1758)
EXTERNAL FLOATING-ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS** **LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries** **40 CFR 63 Subpart G – SOCMI HON** **LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J3
Applicable Limits and Compliance Monitoring Requirements
S-86 (TK-1758)
EXTERNAL FLOATING-ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

Table VII – J4
Applicable Limits and Compliance Monitoring Requirements
S-63 (TK-1711), S-66 (TK-1714)
EXTERNAL FLOATING-ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J4
Applicable Limits and Compliance Monitoring Requirements
S-63 (TK-1711), S-66 (TK-1714)
EXTERNAL FLOATING-ROOF TANKS

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 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries** **40 CFR 63 Subpart G – SOCMI HON** **LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)& (5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)& (6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J5
Applicable Limits and Compliance Monitoring Requirements
S-64 (TK-1712), S-73 (TK-1733), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)
EXTERNAL FLOATING-ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMI HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J5
Applicable Limits and Compliance Monitoring Requirements
S-64 (TK-1712), S-73 (TK-1733), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)
EXTERNAL FLOATING-ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

Table VII – J6
Applicable Limits and Compliance Monitoring Requirements
S-83 (TK-1755), S-84 (TK-1756), S-92 (TK-1771)
EXTERNAL FLOATING-ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J6
Applicable Limits and Compliance Monitoring Requirements
S-83 (TK-1755), S-84 (TK-1756), S-92 (TK-1771)
EXTERNAL FLOATING-ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries** **40 CFR 63 Subpart G – SOCMI HON** **LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J7
Applicable Limits and Compliance Monitoring Requirements
S-97 (TK-1776) – EXTERNAL FLOATING-ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMI HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J7
Applicable Limits and Compliance Monitoring Requirements
S-97 (TK-1776) – EXTERNAL FLOATING-ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

Table VII – J8
Applicable Limits and Compliance Monitoring Requirements
S-163 (TK-1732) – NSPS SUBPART K EXTERNAL FLOATING ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J8
Applicable Limits and Compliance Monitoring Requirements
S-163 (TK-1732) – NSPS SUBPART K EXTERNAL FLOATING ROOF 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		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMI HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

Table VII – J9
Applicable Limits and Compliance Monitoring Requirements
S-207 (TK-1740) – NSPS SUBPART KB EXTERNAL FLOATING ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J9
Applicable Limits and Compliance Monitoring Requirements
S-207 (TK-1740) – NSPS SUBPART KB EXTERNAL FLOATING ROOF 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 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC and NSPS Kb	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS**						
VOC	63.640 (n)(1), 60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	63.640(n)(8) 60.113b (b)(6)	Each time emptied & degassed	visual inspection
VOC	63.640 (n)(1), 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b (b)(1)-(b)(3)	5 yr intervals	measurement and visual inspection
VOC	63.640 (n)(1), 60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b (b)(1)-(b)(3)	P/A	measurement and visual inspection
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8) 60.116b (c)	Upon change of service	Record
VOC		Y		Seal inspection records for report in 60.115b(b)(2)	63.640(n)(8) 60.115b(b)(3)	For each gap measurement	Record
VOC		Y		Inspection report for non-compliant seals	63.640(n)(8) 60.115b(b)(4)	Within 30 days of seal inspection	Report
BAAQMD Permit	**PERMIT CONDITIONS**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J9
Applicable Limits and Compliance Monitoring Requirements
S-207 (TK-1740) – NSPS SUBPART KB EXTERNAL FLOATING ROOF TANK

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 Condition # 10797 Part 1	Y		The total POC emissions shall not exceed 4.62 tons in any rolling 365 consecutive day period.	None	N	N/A
Material Stored	BAAQMD Condition # 10797 Part 4	Y		The S-207 External roof storage tank shall store mogas/components only.	BAAQMD Condition # 10797 Part 7	P/D	Record
Throughput	BAAQMD Condition # 10797 Part 6	Y		The total throughput of mogas/components at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period.	BAAQMD Condition # 10797 Part 7	P/D	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J10
Applicable Limits and Compliance Monitoring Requirements
S-112 (TK-1805) – INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		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
VOC	BAAQMD 8-5-305, 8-5-321.1,	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMI HON LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J10
Applicable Limits and Compliance Monitoring Requirements
S-112 (TK-1805) – INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120(a)(2)	Each time emptied & degassed, at least every 10 yr	visual inspection
HAP	63.646(a) 63.120(a) (7)	Y		Primary rim-seal standards; no holes or tears	63.646(a) 63.120(a)(2)	Each time emptied & degassed, at least every 10 yr	visual inspection
HAP	63.646(a) 63.120(a) (4)	Y		No gaps visible from the tank top	63.646(a) 63.120(a)(2)	P/A	visual inspection
HAP	63.646(a) 63.120(a) (4)	Y		No liquid on the floating roof or other obvious defects visible from the tank top	63.646(a) 63.120(a)(2)	P/A	visual inspection

Table VII – J11
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)
INTERNAL FLOATING ROOF TANK WITH SECONDARY SEAL AND SOLID GUIDEPOLES; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J11
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)
INTERNAL FLOATING ROOF TANK WITH SECONDARY SEAL AND SOLID GUIDEPOLES; MACT EXEMPT

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 8-5-321	Y		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
VOC	BAAQMD 8-5-322	Y		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
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	**40 CFR 63 Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J12
Applicable Limits and Compliance Monitoring Requirements
S-88 (TK-1760), S-87 (TK-1759), S-90 (TK-1762), S-91 (TK-1763)
INTERNAL FLOATING ROOF TANKS WITH SECONDARY SEALS AND SLOTTED GUIDEPOLES; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		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
VOC	BAAQMD 8-5-322	Y		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
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J12
Applicable Limits and Compliance Monitoring Requirements
S-88 (TK-1760), S-87 (TK-1759), S-90 (TK-1762), S-91 (TK-1763)
INTERNAL FLOATING ROOF TANKS WITH SECONDARY SEALS AND SLOTTED GUIDEPOLES; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None	**40 CFR 63 Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.**						

Table VII – J13
Applicable Limits and Compliance Monitoring Requirements
S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		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
VOC	BAAQMD 8-5-322	Y		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
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J13
Applicable Limits and Compliance Monitoring Requirements
S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF 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		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC and NSPS Kb	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS**						
VOC	63.640 (n)(1), 60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	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
VOC	63.640 (n)(1), 60.113b (a)(1) & (4)	Y		Primary 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
VOC	63.640 (n)(1), 60.113b (a)(1) & (4)	Y		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
VOC	63.640 (n)(1), 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.640(n)(8), 60.113b (a)(2)	P/A	visual inspection
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8), 60.116b(c)	Upon change of service	record
VOC		Y		Record of each initial, annual, and 10-year tank inspection	63.640(n)(8), 60.115b(a)(2)	For each tank inspection	record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J13
Applicable Limits and Compliance Monitoring Requirements
S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF 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		Y		Report of non-compliant annual inspection for tanks with secondary seals	63.640(n)(8), 60.115b(a)(4)	Within 30 days of inspection	report
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition # 9296 Part C1	Y		The total throughput shall not exceed 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period.	BAAQMD Condition # 9296 Part C6	P/M	Records of monthly and annual tank throughputs
POC	BAAQMD Condition # 9296 Part C2	Y		Total POC emissions including fugitive POC emissions shall not exceed 0.87 tons in any rolling 12 consecutive month period.	BAAQMD Condition # 9296 Part C6	P/M	Records of monthly and annual tank throughputs
					BAAQMD Regulation 8-18	As Required	Method 21 portable hydrocarbon detector
Storage	BAAQMD Condition # 9296 Part 5	Y		The S-210 internal floating roof tank shall only store methanol/ethanol unless written authorization is received from the APCO allowing a change.	BAAQMD Condition # 9296 Part 5	P/E	Records of material stored

Table VII – J14
Applicable Limits and Compliance Monitoring Requirements
S-55 (TK-2801) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J14
Applicable Limits and Compliance Monitoring Requirements
S-55 (TK-2801) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

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 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J15
Applicable Limits and Compliance Monitoring Requirements
S-65 (TK-1713), S-69 (TK-1717)
EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED-ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501.1	P/E	Record
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.**						

Table VII – J16
Applicable Limits and Compliance Monitoring Requirements
S-124 (TK-1735) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
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
VOC	BAAQMD 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	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement.	None	N	No monitoring – vented to fuel gas recovery system

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J16
Applicable Limits and Compliance Monitoring Requirements
S-124 (TK-1735) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

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 Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries** **Exempt per 63.640(d)(5). Emission point routed to fuel gas system.**						

Table VII – J17
Applicable Limits and Compliance Monitoring Requirements
S-133 (TK-2712)
FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS** **LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
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
VOC	BAAQMD Regulation 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J17
Applicable Limits and Compliance Monitoring Requirements
S-133 (TK-2712)
FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS; WITH PERMIT CONDITIONS

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 Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
	BAAQMD Condition # 7559 Part 1	Y		VOC emissions emitted from the spent acid tank (S-133) shall be routed to the flare gas recovery header (S-9).	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J18
Applicable Limits and Compliance Monitoring Requirements
S-227 (TK-1741)
NSPS SUBPART KB FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
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
VOC	BAAQMD 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	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
VOC	BAAQMD Regulation 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
NSPS Kb	**40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels**						
VOC	40 CFR 60 NSPS Kb 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	None	P/A if criteria met	Method 21
VOC	40 CFR 60 NSPS Kb 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J19
Applicable Limits and Compliance Monitoring Requirements
S-93 (TK-1772), S-94 (TK-1773), S-95 (TK-1774), S-96 (TK-1775), S-99 (TK-1778), S-100 (TK-1779), S-106 (TK-1797), S-107 (TK-1798), S-109 (TK-1802), S-111 (TK-1804), S-116 (TK-1809), S-118 (TK-1811), S-119 (TK-1812), S-140 (TK-1204), S-145 (TK-1201)
EXEMPT FIXED ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501.1	P/E	Record
NESHAPS CC	**40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY**						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Record

Table VII – J20
Applicable Limits and Compliance Monitoring Requirements
S-98 (TK-1777)
EXEMPT FIXED ROOF TANK; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501.1	P/E	Record
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J21
Applicable Limits and Compliance Monitoring Requirements
S-108 (TK-1801)
FIXED ROOF TANK WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NESHAPS CC	**40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY**						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Record
BAAQMD Permit	**Permit Condition**						
VOC	BAAQMD Condition # 76003 Part 1	Y		Organic emissions from filling the tank are to be under 4 lb/hr	BAAQMD Condition # 76003 Part 1	Each time tank is filled	Limit the rate of filling the tank

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J22
Applicable Limits and Compliance Monitoring Requirements
S-110 (TK-1803)
FIXED ROOF TANK WITH SUBMERGED FILL & P/V

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NESHAPS CC	**40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY**						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J23
Applicable Limits and Compliance Monitoring Requirements
S-113 (TK-1806), S-114 (TK-1807), S-115 (TK-1808), S-117 (TK-1810), S-120 (TK-1813), S-122 (TK-1814), S-123 (TK-1794), S-234, S-235
FIXED ROOF TANKS <10 KGALS WITH SUBMERGED FILL & P/V

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J24
Applicable Limits and Compliance Monitoring Requirements
S-143 (TK-1034)
FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC) – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition # 13045 Part 1	Y		Throughput shall not exceed 15,000 galllons during any rolling 12 consecutive month period	BAAQMD Condition # 13045 Part 2	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J25
Applicable Limits and Compliance Monitoring Requirements
S-170 (TK-2317)
FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
VOC	BAAQMD Condition # 896 Part 2	Y		Emissions of NMHC shall not exceed 1 lb/day averaged over 30 day period (896-2). Maintain records of all tank loadings including date, type of material loaded (896-3).	BAAQMD Condition # 896 Part 3	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J26
Applicable Limits and Compliance Monitoring Requirements
S-239 (TK-1918)
FIXED ROOF TANKS <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition # 18422 Part 1	Y		Total liquid throughput shall not exceed 102,000 gallons during any consecutive 12-month period (Cumulative Increase)	BAAQMD Condition # 18422 Part 3	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J27
Applicable Limits and Compliance Monitoring Requirements
S-158 (TK-2902)
FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	BAAQMD Condition # 9584 Part 1	Y		Throughput shall not exceed 10 kgals in any rolling 12 consecutive months	BAAQMD Condition # 9584 Part 2	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J28
Applicable Limits and Compliance Monitoring Requirements
S-1013 (D-2720) – STORAGE DRUM WITH 10 KGAL CAPACITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						

Table VII – J29
Applicable Limits and Compliance Monitoring Requirements
S-121 (D-807), S-185
EXEMPT FIXED ROOF TANKS <10 KGALS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressurenot greater than 0.5 psia.	BAAQMD Regulation 8-5-501.1	P/E	Record
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J30
Applicable Limits and Compliance Monitoring Requirements
S-230 (TK-4460) – EXEMPT FIXED ROOF TANK WITH MACT RECORDKEEPING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
NSPS Kb	**40 CFR 60 Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries Exempt per 60.110b(b) [low vapor pressure**						
NESHAPS CC	**40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY**						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J31.1
Applicable Limits and Compliance Monitoring Requirements
S-132 (TK-2711), S-134 (TK-2713) - EXEMPT FIXED ROOF CAUSTIC TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/initially and upon change of service	Records

Table VII – J31.2
Applicable Limits and Compliance Monitoring Requirements
S-231 (TK-1943), S-236 (TK-1901 NEW) – EXEMPT NON-ORGANIC TANKS

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J32
Applicable Limits and Compliance Monitoring Requirements
S-85 (TK-1757)
EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	P/initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	**National Emission Standard for Petroleum Refineries (Refinery MACT) Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF and NSPS Kb	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J32
Applicable Limits and Compliance Monitoring Requirements
S-85 (TK-1757)
EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a), 61.351(a)2, 60.112b(a)(2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a)2, 60.113b(b)(6)	Each time emptied & degassed	visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	P/A	measurement and visual inspection

Table VII – J33
Applicable Limits and Compliance Monitoring Requirements
S-104 (TK-1795), S-81 (TK-1753)
EXTERNAL FLOATING ROOF TANKS - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J33
Applicable Limits and Compliance Monitoring Requirements
S-104 (TK-1795), S-81 (TK-1753)
EXTERNAL FLOATING ROOF TANKS - BENZENE WASTEWATER

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 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	**National Emission Standard for Petroleum Refineries (Refinery MACT) Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF and NSPS Kb	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks**						
VOC	63.647(a), 61.351 (a)(2), 60.112b(a) (2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a)(2), 60.113b(b)(6)	Each time emptied & degassed	visual inspection
VOC	63.647(a), 61.351 (a)(2), 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)(2), 60.113b(b)(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351 (a)(2), 60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)(2), 60.113b(b)(1), (2) & (3)	P/A	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J34
Applicable Limits and Compliance Monitoring Requirements
S-101 (TK-1791), S-103 (TK-1793), S-105 (TK-1796)
INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
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
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		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
VOC	BAAQMD 8-5-322	Y		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
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	P/after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J34
Applicable Limits and Compliance Monitoring Requirements
S-101 (TK-1791), S-103 (TK-1793), S-105 (TK-1796)
INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	**National Emission Standard for Petroleum Refineries (Refinery MACT) Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF and NSPS Kb	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks**						
VOC	63.647(a), 61.351(a)(1), 60.112b(a)(1)(iv)-(ix), 60.113b(a)(1), 60.113b(a)(4)	Y		Floating roof and 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 tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Secondary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS** **LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
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
VOC	BAAQMD 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	BAAQMD 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC –for Petroleum Refineries** **Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.** **Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations** **LIMITS AND MONITORING FOR CVS & CARBON CANISTERS**						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	**PERMIT CONDITIONS FOR CARBON CANISTERS**						
NMHC	BAAQMD Condition # 11888 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 's 11888 Part 11 and 11888 Part 16	C	Flow meter and VOC analyzer
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11888 Part 12	P/M	Record
VOC	BAAQMD Condition # 11888 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11888 Part 13	P/Q	Method 21
NESHAPS FF	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER**						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring device
BAAQMD Permit	**PERMIT CONDITIONS FOR THERMAL OXIDIZER**						
VOC	BAAQMD Condition # 11888 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11888 Parts 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11888 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11888 Parts 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11888 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11888 Parts 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11888 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3-consecutive hours	BAAQMD Condition # 11888, Parts5 and 6	C	Temperature monitoring device
NMHC	BAAQMD Condition # 11888 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 11888 Parts 5 and 6	C	Temperature monitoring device
NMHC		Y		Record of NMHC emissions	BAAQMD Condition # 11888 Part 12	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J37
Applicable Limits and Compliance Monitoring Requirements
S-150 (TK-2051)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	P/ initially and upon change of service	Records
VOC	BAAQMD 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	BAAQMD 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC –for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CARBON CANISTERS**						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J37
Applicable Limits and Compliance Monitoring Requirements
S-150 (TK-2051)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	**PERMIT CONDITIONS FOR CARBON CANISTERS**						
NMHC	BAAQMD Condition # 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 11879, Parts 11 and 16	C	Flow meter and VOC analyzer
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11879 Part 12	P/M	Record
VOC	BAAQMD Condition # 11879 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11879 P-art 13	P/Q	Method 21
NESHAPS FF	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER**						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J37
Applicable Limits and Compliance Monitoring Requirements
S-150 (TK-2051)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P)/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2) (i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring device
BAAQMD Permit	**PERMIT CONDITIONS FOR THERMAL OXIDIZER**						
NOx	BAAQMD Condition # 11879 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 5 & 6	C	Temperature Monitor
CO	BAAQMD Condition # 11879 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 5 & 6	C	Temperature Monitor
VOC	BAAQMD Condition # 11879 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11879 Part 5, 6 & 8	C	Temperature Monitor
VOC	BAAQMD Condition # 11879 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3-consecutive hours	BAAQMD Condition #'s 11879, Parts 5 and 6	C	Temperature monitoring device
NMHC	BAAQMD Condition # 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 11879 Parts 5 and 6	C	Temperature monitoring device
NMHC		Y		Record of NMHC emissions	BAAQMD Condition # 11879 Part 12	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK2027), S-196 (TK-2077)
NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
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
VOC	BAAQMD 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	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	BAAQMD 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NSPS Kb	**40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK2027), S-196 (TK-2077)
NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	60.113b(c)(2)	as approved (continuous)	specified parameter (VOC mass emissions)
NONE	**40 CFR 63 Subpart CC –for Petroleum Refineries** **Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.** **Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations** **LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
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
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
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	**PERMIT CONDITIONS FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD Condition # 11880 Part 2	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition #'s 11880, Parts3 and 7	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11880 Part 4	P/M	Record
VOC	BAAQMD Condition # 11880 Part 5	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11880 Part 5	P/Q	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)
STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	BAAQMD 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
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
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	**40 CFR 63 Subpart CC –for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF	**40 CFR 61 Subpart FF - NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CARBON CANISTERS**						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)
STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	**PERMIT CONDITIONS FOR CARBON CANISTERS**						
NMHC	BAAQMD Condition # 11882 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition #'s 11882, Parts 11 and 16	C	Flow meter and VOC analyzer
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11882 Part 12	P/M	Record
VOC	BAAQMD Condition # 11882 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11882 Part 13	P/Q	Method 21
NESHAPS FF	**40 CFR 61 Subpart FF - NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER**						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
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
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)
STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring device
BAAQMD Permit	**PERMIT CONDITIONS FOR THERMAL OXIDIZER**						
VOC	BAAQMD Condition # 11882 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11882 Part 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11882 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11882 Part 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11882 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11882 Part 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11882 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3-consecutive hours	BAAQMD Condition #'s 11882,Parts 5 and 6	C	Temperature monitoring device
NMHC	BAAQMD Condition # 11882 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 11882 Parts 5 and 6	C	Temperature monitoring device
NMHC		Y		Record of NMHC emissions	BAAQMD Condition # 11882 Part 12	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J40
Applicable Limits and Compliance Monitoring Requirements
S-205 (TK-2026), S-206 (TK-2076)
NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation **8-5**	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	P/E	Record
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
VOC	BAAQMD 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	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	BAAQMD 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NSPS Kb	**40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J40
Applicable Limits and Compliance Monitoring Requirements
S-205 (TK-2026), S-206 (TK-2076)
NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21
VOC	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	60.113b(c)(2)	as approved (continuous)	specified parameter (VOC mass emissions)
NONE	**40 CFR 63 Subpart CC –for Petroleum Refineries** **Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.** **Subject to NESHAPS FF as a wastewater source per 63.647(a).**						
NESHAPS FF	**40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations** **LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21
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
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
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
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	**PERMIT CONDITIONS FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD Condition # 11880 Part 2	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition #'s 11880, Parts 3 and 7	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11880 Part 4	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J40
Applicable Limits and Compliance Monitoring Requirements
S-205 (TK-2026), S-206 (TK-2076)
NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE - BENZENE WASTEWATER

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 Condition # 11880 Part 5	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11880 Part 5	P/Q	Method 21

Table VII – J41
Applicable Limits and Compliance Monitoring Requirements
S-208 (D-920)
COKER SLUDGE DRUM WITH VAPOR RECOVERY ROUTED TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
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
VOC	BAAQMD 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	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J41
Applicable Limits and Compliance Monitoring Requirements
S-208 (D-920)
COKER SLUDGE DRUM WITH VAPOR RECOVERY ROUTED TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
BAAQMD Permit	**PERMIT CONDITIONS FOR SLUDGE DRUM**						
VOC	BAAQMD Condition # 8771 Part 4	Y		Throughput limit for 12 consecutive month period	BAAQMD Condition # 8771 Part 5	P/M	Record
NONE	**40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels (10/15/2003) Exempt per 60.110b(a) [capacity < 75 cu meters]**						
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Exempt from NESHAPS per 63.640(d)(5). Emission point routed to fuel gas system.**						
NONE	**40 CFR 61 Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d). Emission point routed to fuel gas system.**						

Table VII – J42
Applicable Limits and Compliance Monitoring Requirements
EXEMPT LPG PRESSURIZED SPHERES
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (11/27/02) LIMITS AND MONITORING FOR PRESSURE TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	P/E	records
VOC	BAAQMD 8-5-307	Y		Pressure tank must be gas tight: < 100 ppm (as methane) above background	BAAQMD 8-5-503 8-5-605	not specified	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/E	portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J43
Applicable Limits and Compliance Monitoring Requirements
EXEMPT REFRIGERATED BUTANE TANK WITH VAPOR RECOVERY
TK-1726

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS (11/27/02) LIMITS AND MONITORING FOR PRESSURE TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	P/E	records
VOC	BAAQMD 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	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306	Y		Approved Emission Control System standards; includes 95% efficiency requirement	BAAQMD 8-5-503	N	No monitoring – recovered vapors returned to tank
VOC	BAAQMD 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after degassing	BAAQMD 8-5-503	P/E	portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP 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
CO	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 2	Y		Emissions of CO < 50 ppmv @ 3% O2	BAAQMD Condition 11879, 11882, 11888 & 13319 Parts 5 & 6	C	Temperature
NOX	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 1	Y		Emissions of NOX < 25 ppmv @ 3% O2	BAAQMD Condition 11879, 11882, 11888 & 13319 Parts 5 & 6	C	Temperature
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring
FP	BAAQMD 6-310	Y		0.15 gr/dscf	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring
H_2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		H_2S concentration of feed gas to A-57 not to exceed 230 mg/dscm (0.10 grain/dscf)	40 CFR 60 Subpart J 60.105(a)(4) 60.13(i)	C	H2S analyzer on feed gas or alternative monitoring when approved

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP 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
VOC	BAAQMD 8-5-306	Y		95% control of organic vapors	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring
VOC	BAAQMD 8-8-302.3 & SIP 8-8-302.3	Y		95% combined collection and destruction efficiency	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring
VOC	BAAQMD 8-8-307.2 & SIP 8-8-307.2	Y		> 70% combined collection and destruction efficiency by weight	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring
VOC	40 CFR 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR 61.349(a)(1)(i)	P/A	Method 21
VOC	40 CFR 61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR 61.349(f)	P/Q	Visual inspection
VOC	40 CFR 61.349(a)(2)(i)(A)	Y		95% control	40 CFR 61.354(c)(1)	C	Temperature monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP 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
NMHC	BAAQMD Condition 11879, 11882, 11888 Part 10 & 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition 11879, 11882, 11888 Part 12 & 13319 Part 17	P/D	Calculations Records
NMHC	BAAQMD Condition 11879, 11882, 11888 Part 10 & 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 5 & 6	C	Temperature monitoring
VOC	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 3	Y		98.5% control efficiency	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring
Temper-ature limit	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4	Y		1400^{o} F. in outlet or as determined by source test averaged over 3 consecutive hours	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 4 & 5	C	Temperature monitoring

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 1-522	Continuous Emission Monitoring	Manual of Procedures, Volume V
BAAQMD Regulation 1-605	Laboratory, Source Test and Air Monitoring Procedures	Manual of Procedures
BAAQMD Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD Regulation 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling
BAAQMD Regulation 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD Regulation 6-330	Sulfur Recovery Units	Manual of Procedures, Volume IV, ST-20, Sulfur Dioxide, Sulfur Trioxide and Sulfuric Acid Mist

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-2-301	VOC Emission Limit for Miscellaneous Operations	Manual of Procedures, Volume, IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA method 25 or 25A
BAAQMD Regulation 8-5-117	Low Vapor Pressure Exemption for Tanks	Manual of Procedures, Volume III, Lab Method 28
BAAQMD Regulation 8-5-301 8-5-501.1	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 1
BAAQMD Regulation 8-5-303.2 8-5-306, 8-5-307	Organic compound leak concentration	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks) – Portable hydrocarbon detector
BAAQMD Regulation 8-5-306	Tank Emission Control System Requirements, 95% Abatement Efficiency	SIP Manual of Procedures, Volume IV, ST 4, Bulk Gasoline Loading Terminals
BAAQMD Regulation 8-5-320	Floating Roof Tank (internal and external) tank fitting gap measurement	Physical measurements as described in BAAQMD 8-5-320 when required in BAAQMD 8-5-401.2 (external floating roof tanks) or 8-5-402.3 (internal floating roof tanks)..
BAAQMD Regulation 8-5-321	Floating Roof Tank (internal and external) primary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or 8-5-402.1 (internal floating roof tanks).
BAAQMD Regulation 8-5-322	Floating Roof Tank (internal and external) secondary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or 8-5-402.1 (internal floating roof tanks).
BAAQMD Regulation 8-5-328.1.2	Tank Degassing Emission Control System, 90% Abatement Efficiency Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD Regulation 8-5-328.1.2	Organic concentration in tank < 10,000 ppm as methane after degassing	EPA Method 21 [40 CFR 60, Appendix A], Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-7-301	Phase I Vapor Recovery Efficiency Requirements	Manual of Procedures, Volume IV, ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency, or as prescribed by CARB Test Procedure TP-201.1

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Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-7-301.6 8-7-302.5	Vapor Tightness Requirements	Manual of Procedures, Volume IV, ST-30, Static Pressure Integrity Test, Underground Storage Tanks as prescribed by CARB Test Procedure TP-201.3 (underground tanks)
BAAQMD Regulation 8-7-302.8	Phase II Liquid Removal Requirements	Manual of Procedures, Volume IV, ST-37, Gasoline Dispensing Facility Liquid Removal Devices
BAAQMD Regulation 8-7-302.12 8-7-313.3	Phase II Liquid Retain Requirements	CARB Test Procedure TP-201.2E or test procedure determined by CARB to be equivalent to TP-201.2E
BAAQMD Regulation 8-7-302.13 8-7-313.3	Phase II Spitting Requirements	CARB Test Procedure TP-201.2D or test procedure determined by CARB to be equivalent to TP-201.2D
BAAQMD Regulation 8-7-302.14	Phase II Vapor Balance System Dynamic Backpressure Requirements	Manual of Procedures, Volume IV, ST-27, GDF Dynamic Back Pressure Test, or as prescribed by CARB Test Procedure TP-201.4
BAAQMD Regulation 8-8-114, 8-8-501	Bypass Wastewater Requirements – Concentration of Dissolved Critical Organic Compounds	Manual of Procedures, Volume III, Lab Method 33
BAAQMD Regulation 8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
SIP 8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
BAAQMD Regulation 8-8-302.6	Oil-Water Separators at Petroleum Refinery – vapor tight roof seals, fixed covers, access doors, openings	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-8-303	Gauging and Sampling Device on Oil-Water Separator – vapor tight cover, seal, or lid	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector

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Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-8-307.2	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
SIP 8-8-307.2	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
BAAQMD Regulation 8-8-312	Controlled Wastewater Collection System Components At Petroleum Refineries	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-8-313.2	Uncontrolled Wastewater Collection System Components At Petroleum Refineries	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-18	Fugitive Emission Monitoring Requirements	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-18-306.4	Mass Emission Rate – Valves with Major Leaks	EPA Protocol for Equipment Leak – Emission Estimates, Chapter 4, Mass Emission Sampling (EPA-453/R-95-017)
BAAQMD Regulation 8-28-304.2	Pressure Relief Device Vapor Recovery Requirements after Repeat Releases	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A or Other methods to demonstrate control efficiency
BAAQMD Regulation 8-44-301	POC emission rate limitation and emission reduction efficiency (>=95%) during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Loading Terminals and ST-34, Bulk and Marine Loading Terminals, Vapor Recovery Units
BAAQMD Regulation 8-44-304.1 8-44-303	Leak free and gas tight requirements	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 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
BAAQMD Regulation 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Lab Method 10, Determination of Sulfur in Fuel Oils.

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Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	H_2S Gas Stream Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 25, Determination of H_2S in Effluents or equivalent method approved by APCO
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	H_2S Water Stream Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 32, Determination of H_2S in Process Water Streams or equivalent method approved by APCO
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	NH3 Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 1, Determination of NH3 in Effluents Collected in Acid Media Using the Specific Ion Electrode or equivalent method approved by APCO
BAAQMD Regulation 9-2-301 9-1-301	Limitations on H_2S Ground Level Concentrations	BAAQMD and SIP Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD Regulation 9-3-303	NO_x Emission Limit for New or Modified Heat Transfer Operations	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling (nitrogen oxides) and ST-14, Oxygen, Continuous Sampling Note: ST-13B (nitrogen oxides) has been deleted from Volume IV of the MOP
BAAQMD Regulation 9-9-301.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 9-10-112	Limited Exemption, Low Fuel Usage	ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulations 9-10-301	Refinery-Wide NO_x Emission Limit	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling. For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NOx Monitoring Policy.
BAAQMD Regulation 9-10-303	NO_x Emission Limit for Facility (Federal Requirement), 0.20 lb per MMBTU of heat input, operating day average	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling. For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NOx Monitoring Policy.
BAAQMD Regulation 9-10-305	CO Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test
BAAQMD Regulation 9-10-303.1	NO_x Emission Limit, CO Boiler (Federal Requirement)	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14,Oxygen, Continuous Sampling
BAAQMD Regulation 9-10-304.1	NO_x Emission Limit, CO Boiler (BAAQMD Requirement)	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14,Oxygen, Continuous Sampling
BAAQMD Regulation 11-10-302.2	Wooden Cooling Tower Circulating Water Hexavalent Chromium Concentration	American Public Health Method 312B or equivalent method as approved by the APCO
40 CFR 60 Subpart Db 60.44b(a) 60.44b(e)	NO_x Emission Limit	40 CFR 60 Appendix B, Performance Specification 2

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart J 60.104(a)(1)	Fuel Gas H_2S Concentration Limit	40 CFR 60, Appendix A, EPA Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries; and 40 CFR 60 Appendix B, Performance Specification 7, Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources
40 CFR 60 Subpart Kb 60.112b (a)(3)(i)	NSPS Subpart Kb Closed Vent System – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart Kb 60.112b (a)(3)(ii)	NSPS Subpart Kb Closed Vent System Performance (95% efficiency)	40 CFR 60 Subpart Kb 60.113b(c) Testing and Procedures
40 CFR 60 Subpart Kb 60.113b (b)(4)(i)	NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement	40 CFR 61 Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
40 CFR 60 Subpart Kb 60.113b (b)(4)(ii)	NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement	40 CFR 61 Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
40 CFR 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit	ASTM D 1072-80 or 90, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82 or 94, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, 92, or 96, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry See permit shield. The initial ASTM grab sample method specified by 60.335(d) as the monitoring requirement for this 60.333(b) fuel sulfur limit is superceded by ongoing TRS CEMs required by BAAQMD Permit Condition 19177, Part 35.

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart VV 60.482-2(b)(1)	Pumps in light liquid service – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-2(e)	Pumps in light liquid service and designated for "no detectable emission" – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-3(d)	Compressor barrier fluid system and seal failure detection sensor.	
40 CFR 60 Subpart VV 60.482-3(i)	Compressors designated for "no detectable emission" – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-4(b)(1)	Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-7(b)	Valves in gas/vapor service and in light liquid service – leak detection.	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-7(f)	Valves in gas/vapor service and in light liquid service and designated for "no detectable emission" – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-7(h)	Valves in gas/vapor service and in light liquid service and designated as difficult-to-monitor.	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-8(b)	Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.483-2	Individual valves meeting criteria for skip period leak detection – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.485(d)	Determination % VOC content in process fluid	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart VV 60.485(e)	Demonstrate equipment is in light liquid service	ASTM D2879-83, 96, or 97 (Vapor pressure) OR Standard reference texts
40 CFR 61 Subpart FF 61.343 (a)(1)(i)(A)	Tank fittings leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.345 (a)(1)(i)	Container fittings leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.347 (a)(1)(i)(A)	Oil/Water Separator fittings leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.349 (a)(1)(i)	Closed-vent system leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.349(a)(2)(i)(A)	Enclosed Combustion Control Device Requirements, > 95% Reduction	40 CFR 61 Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions
40 CFR 61 Subpart FF 61.349(a)(2)(ii)	Carbon Adsorption Control Device Requirements, 95% VOC or 98% benzene reduction	40 CFR 61 Subpart FF 61.356 Recordkeeping Requirements
40 CFR 61 Subpart FF 61.342(e)(2)(i)	Uncontrolled Benzene Wastewater Limit	40 CFR 61 Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 61 Subpart FF 61.355(c)(3)	Measure benzene concentration in waste streams	From "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846: (1) Method 8020, Aromatic Volatile Organics, (2) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series (3) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics (4) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique From 40 CFR Part 136, Appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which these are approved EPA methods: (1) Method 602, Purgeable Aromatics, (2) Method 624, Purgeables
40 CFR 61 Subpart FF 61.355(h)	Test equipment for compliance with no detectable emissions requirements of 40 CFR 61 Subpart FF	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks)
40 CFR 61 Subpart FF 61.355(i)	Demonstrate compliance of a control device with a performance test	40 CFR 60, Appendix A, Method 1 or 1A 40 CFR 60, Appendix A, Method 2, 2A, 2C, or 2D 40 CFR 60, Appendix A, Method 18
40 CFR 63 Subpart CC 63.643(a)(2)	HAP Reduction Requirements for Fluid Cokers	40 CFR 63 Subpart CC 63.645 Test Methods and Procedures for Miscellaneous Process Vents
40 CFR 63 Subpart CC 63-646(a) 40 CFR 63 Subpart G 60.120(b)(3) 60.120(b)(5)	Refinery MACT (40 CFR 63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement	40 CFR 63 Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 63 Subpart CC 63-646(a) 40 CFR 63 Subpart G 60.120(b)(4) 60.120(b)(6)	Refinery MACT (40 CFR 63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement	40 CFR 63 Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
40 CFR 63 Subpart UUU 40 CFR 63.1567(b)(3)	Performance Test for Inorganic HAP (HCl) Emissions From Catalytic Reforming Units	Method 26A (40 CFR 60, Appendix A)
40 CFR 63.1564(b)(2)	Performance Test for PM Emissions from Catalytic Cracking Units	Method 5B or 5F (40 CFR 60, Appendix A)
40 CFR 63.1564(b)(2)	Compute PM Emission Rate of Coke Burn-Off	Equations 1 and 2 of 40 CFR 63 Subpart UUU 63.1564
40 CFR 63 Subpart UUU 63.1568(b)(5)	Initial Compliance Demonstration for TRS Limit and Performance Evaluation for Continuous TRS Monitor at Sulfur Plants	Method 15 or 15A (40 CFR 60, Appendix A)

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table IX A-1
Permit Shield for Non-Applicable
Benicia - Benicia Refinery

Citation	Title or Description	Reason Not Applicable
BAAQMD Regulation 9-1-302	General Sulfur Dioxide Emission Limitation	300 ppm sulfur dioxide stack limit not applicable with GLM system in place as required by BAAQMD Regulations 9-1-110 and 9-1-310.3.

Table IX A-2
Permit Shield for Non-Applicable
S-1 - F-1301A

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	Claus sulfur plant was constructed before, and has not been modified after , October 4, 1976

Table IX A-3
Permit Shield for Non-Applicable
S-2 - F-1301B

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	Claus sulfur plant was constructed before, and has not been modified after, October 4, 1976

Table IX A-4
Permit Shield for Non-Applicable
S-5 – FCCU R-702

IX. Permit Shield

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	The fluid catalytic cracking unit was constructed before, and has not been modified after, January 17, 1984

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a "hybrid" monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

Table IX B - 1
Permit Shield for Subsumed Requirements
REFINERY

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 10-69	Subpart QQQ. Standards of Performance For Petroleum Refinery Wastewater Systems	40 CFR 63 Subpart CC	BAAQMD incorporation by reference of NSPS 40 CFR 60, Subpart QQQ is superceded by Refinery MACT, 40 CFR 63 Subpart CC.
40 CFR 60 Subpart QQQ	Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems	40 CFR 63.640(o)(1)	For Valero, Subpart QQQ is superceded by Refinery MACT, 40 CFR 63 Subpart CC. Ref: 64.640(o)(1). Subpart CC cites 40 CFR 61 Subpart FF for Wastewater Standards.

IX. Permit Shield

Table IX B - 2
Permit Shield for Subsumed Requirements
S-21

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition # 10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMDRegulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B - 3
Permit Shield for Subsumed Requirements
S-22

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition # 10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B - 4
Permit Shield for Subsumed Requirements
S-220

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD Regulation 9-3-303: 125 ppm NOx)	BAAQMD Regulation 9-10-502 & SIP 9-10-502.2	Monitoring (CEM for NOx will assure compliance with 9-9-303 limit. Span of CEM for 9-10-502 is too low to measure 125 ppm.)

IX. Permit Shield

Table IX B - 4
Permit Shield for Subsumed Requirements
S-220

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition # 10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B – 5
Permit Shield for Subsumed Requirements
S-1030 AND S-1032

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 125 ppm.)
40 CFR 60 Subpart GG 60.335(d)	Fuel Sulfur Content Compliance Methods (daily grab samples)	BAAQMD Condition 19177 Part 35	CEM for fuel gas H_2S and TRS content

IX. Permit Shield

Table IX B – 6
Permit Shield for Subsumed Requirements
S-1031 AND 1033

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 125 ppm.)
40 CFR 60 Subpart Db 60.48b(e)(2) and (3)	Requirement for 500 ppm span	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 60.44b(e) and 60.44b(l)(1) limits. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 500 ppm.)
40 CFR 60 Subpart Db 60.44b(i)	30-day rolling average for NOx limit	BAAQMD Regulation 10-4 NSPS Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	BAAQMD Regulation 10-4 replaces the 30-day rolling NOx average with a 24-hour maximum limit as the averaging period.

IX. Permit Shield

Table IX B - 8
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 11-7-307.4	Valves	BAAQMD 8-18-404	Allows relief from monthly monitoring if designated as unsafe-to monitor. BAAQMD Regulation 8-18-404 does not allow this relief.

Table IX B – 9
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 11-7-401	Inspection	BAAQMD 8-18-403	Weekly visual inspection of pumps is subsumed by 8-18-403 that requires daily inspection of pumps and has no NDE exemption.
40 CFR 60.482-7(g)	Standards	BAAQMD 8-18-404	Allows relief from monthly monitoring if designated as unsafe-to-monitor. BAAQMD Regulation 8-18-404 does not allow this relief.
40 CFR 60.482-9(e)	Standards	BAAQMD 8-18-306	Allows delay of repair of valves beyond a process unit shutdown under specific circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
40 CFR 61 Subpart J	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene	40 CFR 63.640(p)	For Valero, Subpart J is superceded by Refinery MACT, 40 CFR 63 Subpart CC. Ref: 63.640(p). Subpart CC cites 40 CFR 60 Subpart VV and 40 CFR 63 Subpart H for Equipment Leak Standards.
40 CFR 61	National Emission Standards	40 CFR	For Valero, Subpart V is

IX. Permit Shield

Table IX B – 9
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
Subpart V	for Equipment Leaks (Fugitive Emission Sources)	63.640(p)	superceded by Refinery MACT, 40 CFR 63 Subpart CC. Ref: 63.640(p). Subpart CC cites 40 CFR 60 Subpart VV and 40 CFR 63 Subpart H for Equipment Leak Standards.
40 CFR 61.350(a)	Standards: Delay of Repair	BAAQMD 8-18-306.1	Repair of technically impossible equipment may be delayed until next process unit shutdown. Subsumed by BAAQMD 8-18-306.1 which requires repair during the next turnaround or 5 years, whichever is sooner.
40 CFR 61.350(b)	Standards: Delay of Repair	BAAQMD 8-18-306.1	Repair of technically impossible equipment may be delayed until next process unit shutdown. Subsumed by BAAQMD 8-18-306.1 which requires repair during the next turnaround or 5 years, whichever is sooner.

X. REVISION HISTORY

Initial Major Facility Review Permit Issuance (Application No. 3281): December 1, 2003

Administrative Amendment (no application): May 27, 2004

Reopening (Application No. 9298): "Revision 1" December 16, 2004

Minor Revision (through Application No. 2488) December 16, 2004

Reopening (Application No. 11697): Proposed April 15, 2005 (See Note)

- "Revision 2"
- Addressing EPA Revision 1 Reopening Issues.
- Incorporated NSR Applications 10665 (S-103), 10355 (S-244) and 11018 (S-245).
- Incorporated Minor Revision Application 11307 (NOx Box)

Note: The Final Revision 2 was combined with Revision 3.

Reopening (Application No. 12600) March 2, 2007

- "Revision 3"
- Addressing EPA March 15, 2005 Order Denying in Part and Granting in Part the December 7, 2004 Petition from Our Children's Earth.Incorporated NSR Applications 12588 (S-160), 12659 Change of NOx Box Condition 21233, and Application 12701, S-20 NOx Box Revision.
- Incorporated Minor Revision Applications 12434 (S-20 NOx Box Revision), 12478 (NOx Box Condition 21233 Revision), and 12867 (Correction of A-57 Requirement 40 CFR 61.356(f)(2)(i)(A)).
- Incorporated Administrative Admendment Applications 12575 (Change of S-142 Service) and incorporated the administrative changes associated with completing the Authority to Construct requirements of Application 7214 (A-57 Source Test).

X. REVISION HISTORY

- Removed the following sources:

S-57	Crude Oil Tank TK-1701, External Floating Roof, 6300 kgal
S-58	Crude Oil Tank TK-1702, External Floating Roof, 18900 kgal
S-59	Crude Oil Tank TK-1703, External Floating Roof, 18900 kgal
S-60	Crude Oil Tank TK-1704, External Floating Roof, 6300 kgal
S-61	Crude Oil Tank TK-1705, External Floating Roof, 18900 kgal
S-62	Crude Oil Tank TK-1706, External Floating Roof, 18900 kgal
S-67	Gas Oil Tank TK-1715, External Floating Roof, 9450 kgal
S-68	Gas Oil Tank TK-1716, External Floating Roof, 8820 kgal
S-70	Resid Coker Feed Tank TK-1718, Vertical Fixed Roof, 5250 kgal
S-71	Resid Coker Feed Tank TK-1719, Vertical Fixed Roof, 15708 kgal
S-72	Gas Oil Tank TK-1720, External Floating Roof, 15204 kgal
S-74	HVN TK-1734, External Floating Roof, 7980 kgal

These sources are no longer owned by Valero Refining Company. They are now owned by Valero Logistics Operations, LP, and are covered by the Major Facility Review permit for Facility B5574 issued October 4, 2006. Removal of these sources was addressed in the B2626 Revision 3 Statement of Basis.

XI. GLOSSARY

ACT
Federal Clean Air Act

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.

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

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.

XI. Glossary

CEQA
California Environmental Quality Act

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.

CO
Carbon Monoxide

CO2
Carbon Dioxide

COM
Continuous Opacity Monitor

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.

DNF
Dissolved Nitrogen Flotation (See DAF)

dscf
Dry Standard Cubic Feet

dscm
Dry Standard Cubic Meter

DWT
Dead Weight Ton

XI. Glossary

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) x (10^6) = (4.53) x (10 x 10 x 10 x 10 x 10 x 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.

District
The Bay Area Air Quality Management District

EPA
The federal Environmental Protection Agency.

ETP
Effluent Treatment Plant

Excluded
Not subject to any District regulations.

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), 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

XI. Glossary

GLM
Ground Level Monitor

grains
1/7000 of a pound

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 both 40 CFR Part 63.

H2S
Hydrogen Sulfide

H2SO4
Sulfuric Acid

Hg
Mercury

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

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.

Long ton
2200 pounds

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Major Facility
A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MDEA
Methyl Diethanolamine

MFR
Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

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)

NOx
Oxides of nitrogen.

NSPS

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Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

NSR
New Source Review. A federal program for pre-construction review and permitting of new and modified sources of 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.)

O_2
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, NOx, PM10, and SO2.

Phase II Acid Rain Facility
A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC
Precursor Organic Compounds

PM
Particulate Matter

PM10
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

Process Unit
For the purpose of start-up and shutdown reporting, a process unit is defined as in 40 CFR Part 60 Subpart GGG: Process Unit means components assembled to produce intermediate or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

PSD
Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

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

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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 NOx 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 NOx compounds to nitrogen gas.

SIP
State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2
Sulfur dioxide

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

Start-up
For reporting purposes only, a start-up shall be defined as any of the following; the removal of boundary blinds, first fire to a furnace, or the introduction of process feed to a unit. A start-up only occurs following a shutdown unless it involves a newly constructed process unit.

Shutdown
For reporting purposes only, a shutdown shall be defined as any of the following; there is no process feed to a unit, no furnace fires, or the boundary blinds are installed.

THC
Total Hydrocarbons (NMHC + Methane)

therm
100,000 British Thermal Units

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Title V
Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

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

VOC
Volatile Organic Compounds

Units of Measure:

bbl	=	barrel
bhp	=	brake-horsepower
btu	=	British Thermal Unit
C	=	degrees Celcius
d	=	day
F	=	degrees Farenheight
f^3	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
k	=	thousand

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M	=	thousand
m^2	=	square meter
max	=	maximum
Mg	=	mega-gram, one thousand grams
µg	=	micro-gram, one millionth of a gram
min	=	minute
MM	=	million
mm	=	millimeter
MMbtu	=	million btu
mm Hg	=	millimeters of Mercury (pressure)
MW	=	megawatts
mo	=	month
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
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://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions

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