Bay Area Air Quality Management District

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

Proposed

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**
John U. Roach	Clark Hopper,
Refinery Manager	Environmental Manager
(707) 745-7773	(707) 745-7976

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

BAAQMD Permit Division Contact:
Douglas W. Hall

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

_____ _____
Ellen Garvey, 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 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);

SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 2/25/99); and

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 5/2/01).

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

1. This Major Facility Review Permit was issued on [ ] and expires on [when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** [when issued, enter 5th anniversary of issue date]**.** (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

I. Standard Conditions

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

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

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or

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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 [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [_____ 1st through _____ 30th or 31st] and [_____ 1st through _____ 30th or 31st], and 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 certification period will be _____ 1st to _____ 30th or 31st. The certification shall be submitted by _____ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

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

I. Standard Conditions

(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. 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)

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

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
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
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)	30.6 MM therms/year fuel gas (349.5 MMBTU/hr)
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)	14.9 MMtherms/year fuel gas (169.8 MMBTU/hr)
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)
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/BBLyear fresh feed (39.6 kBBL/day)
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)
S-8	Fluid coking - transportation, Coker product, (Coke Silos Primary Scrubber,	GE ESI	Model #35; Series 412M	2400 tons/day (based on 100	613.2 ktons/year. (based on 70

II. Equipment

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S-#	Description	Make or Type	Model	Capacity	Throughput
	Cyc 1901)			tons/hour)	tons/hour)
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)
S-10	Loading - storage tank, Minerals - other/not spec, (CATALYST RAILCAR UNLOADING BAG FILTER 2701)	Flexcleen	84 CT 18	240 tons/day (based on 10 tons/hour)	1825 tons/year (based on an average of 5 tons/day)
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)
S-12	Storage - contained, Lime, (Lime Silo 2303)	Custom	N/A		550 tons (actual)
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.
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
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
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	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM

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S-#	Description	Make or Type	Model	Capacity	Throughput
				actual hourly maximum firing rate of 1.40 MMBTU/hour)	BTU/hour) Pilot gas only
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
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)
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)
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	106 MMtherms/365-days (combined w/S-21) (average of 605 MMBTU/hour

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
				actual hourly maximum firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	per furnace) (Condition #10574-37)
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)
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)
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	20.15 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour)

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
				10 Compliance Plan)	
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)
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.)
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)
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)
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	40.56 MMtherms/year combined with S-30, S-32 and S-33 (average of 463 MMBTU/hour)

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
				Plan)	
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)
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)
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)
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)
S-36	Industrial Boiler - Other, Refinery make	Custom	Burners (18): John	65.28 ktherms/day	Excluded from

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	gas (RMG) (WASTE HEAT BOILER, SG-701)		Zink B-Y-2720	(daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour)
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)
S-38	Industrial Boiler - Other, Refinery make gas (RMG) (STEAM GENERATOR, SG-703)	Erie City Iron Works	#21M Pressurized Keystone; Burners (2): MJ-30	38.40 ktherms/day (daily capacity is based on an actual hourly maximum firing rate of 160 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	14.02 MM therms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 160 MMBTU/hour)
S-39	Industrial Boiler - Other, Refinery make gas (RMG) (STEAM GENERATOR, SG-2901)	Erie City Iron Works	#21M Pressurized Keystone; Burners (2): MJ-30	38.40 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 160 MMBTU/hour (Regulation 9, Rule 10 Compliance Plan)	14.02 MM therms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 160 MMBTU/hour)

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
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)
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)
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)
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)
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	12.35 MMtherms/year throughput is based on a design (seasonal average temperature) maximum firing rate of

II. Equipment

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
				firing rate of 152.4 MMBTU/hour)	141.0 MMBTU/hour)
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)
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)
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)
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.
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)

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
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)
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)
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)
S-57	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK-1701, CRUDE OIL)	N/A	N/A	6300 kgal	51.65 MMBBL/year combined with S-58. 59, 60, 61 and 62 (based on combined total of 141.5 kBBL/day)
S-58	Tank, External Floating Roof, GOLD, Crude oil, , Welded, Pontoon (TK-1702, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 59, 60, 61 and 62 (based on combined total of 141.5 kBBL/day)
S-59	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK-1703, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 58, 60, 61 and 62 (based on combined total of 141.5 kBBL/day)
S-60	Tank, External Floating Roof, GOLD, Bunker C fuel oil, Crude oil, Welded, Pontoon (TK 1704, CRUDE OIL)	N/A	N/A	6300 kgal	51.65 MMBBL/year combined with S-57, 58, 59, 61 and 62 (based on combined

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
					total of 141.5 kBBL/day)
S-61	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK 1705, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 58, 59, 60 and 62 (based on combined total of 141.5 kBBL/day)
S-62	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK 1706, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 58, 59, 60 and 61 (based on combined total of 141.5 kBBL/day)
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)
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)
S-65	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1713, RESID)	N/A	N/A	5250 kgal	Exempt
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)
S-67	Tank, External Floating Roof, GREEN, Waste oil, Welded, Pontoon (TK-1715, GAS OIL)	N/A	N/A	9450 kgal	14.235 MMBBL/year combined with S-64. 66, 68 and 72 (based on combined total of

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
					39.0 kBBL/day)
S-68	Tank, External Floating Roof, GREEN, Distillate oil, Welded, Pontoon (TK-1716, GAS OIL)	N/A	N/A	8820 kgal	14.235 MMBBL/year combined with S-64. 66, 67 and 72 (based on combined total of 39.0 kBBL/day)
S-69	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, Gas oil, (TK-1717, RESID)	N/A	N/A	5250 kgal	Exempt
S-70	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1718,RESID)	N/A	N/A	5250 kgal	Exempt
S-71	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1719, RESID)	N/A	N/A	15,708 kgal	Exempt
S-72	Tank, External Floating Roof, GREEN, Distillate oil, , Welded, Pontoon (TK-1720, GAS OIL)	N/A	N/A	15,204 kgal	14.235 MMBBL/year combined with S-64. 66, 67 and 68 (based on combined total of 39.0 kBBL/day)
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)
S-74	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1734, ALKYLATE)	N/A	N/A	7980 kgal	62.8 MMBBL/year combined with S-63, 73, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day)
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)
S-76	Tank, External Floating Roof, GREEN,	N/A	N/A	5880 kgal	62.8 MMBBL/year

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Gasoline - unleaded, Welded, Pontoon (TK-1737, GASOLINE COMP)				combined with S-63, 73, 74, 75, 78, 97 and 163 (based on combined total of 172.1 kBBL/day)
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 (MTBE production of 4.5 kBBL/day plus 5.8 MMBBL/year of MTBE receipts through S-207
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)
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)
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)
S-81	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1753, GASOLINE)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-85, 103 and 104 (actual)
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)
S-83	Tank, External Floating Roof, GOLD,	N/A	N/A	5040 kgal	49.275 MMBBL/year

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Gasoline - unleaded, Welded, Pontoon (TK-1755, GASOLINE)				combined with S-79, 80, 82, 84, 86 and 92 (based on 135 kBBL/day)
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)
S-85	Tank, External Floating Roof, GOLD, Water/organics mixture, Waste oil, Welded, Pontoon (TK-1757, GASOLINE)	N/A	N/A	1260 kgal	8.21 MMBBL/year combined with S-81, 103 and 104 (actual)
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)
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)
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)
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)
S-90	Tank, Internal Floating Roof, WHITE,	N/A	N/A	307 kgal	13.0 MMBBL/year

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Gasoline - unleaded, Welded, Pan (TK-1762, GASOLINE w/liquid mounted primary and secondary seals)				combined with S-87, 88, 89 and S-91 (based on combined total of 35.7 kBBL/day)
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)
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)
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-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)
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

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
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)
S-103	Tank, Internal Floating Roof, GREEN, Water/organics mixture, Welded, Pan (TK-1793 SLOP)	N/A	N/A	676 kgal	8.21 MBBL/year combined with S-81, 85, and 104 (actual)
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 MBBL/year combined with S-81, 85, and 103 (actual)
S-105	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1796, WWEIGHT SLOP)	N/A	N/A	189 kgal	690.5 kBBL/year - Condition #8771
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)
S-107	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1798, DIESEL (FUEL OIL))	N/A	N/A	4410 kgal	Exempt-distillate
S-108	Tank, Pressure, GOLD, Organic liquid - other/not spec, (TK-1801, MMT)	N/A	N/A	16,800 kgal	6.85 kBBL/year/
S-109	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1802, GASOLINE ANTI-OXIDANT)	N/A	N/A	16,800 kgal	Exempt-additive year
S-110	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1803, HTA)	N/A	N/A	16,800 kgal	260 kBBL/year (actual)
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)
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)
S-113	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1806, LUBRISOL)	N/A	N/A	2520 gal	85 BBL/year

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
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)
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)
S-116	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1809, PETROX)	N/A	N/A	39 kgal	Exempt-additive
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)
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 liquid -other/not spec, (TK-1812, ANTI-ICE)	N/A	N/A	16,800 gal	Exempt-additive
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)
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-122	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK 1814, ADDITIVES)	N/A	N/A	2540 gal	85 BBL/day
S-123	Tank, Vertical Fixed Roof, GOLD, (TK-1794,) Diesel Red Dye	N/A	N/A	8400 gal	Exempt
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)
S-127	Loading, Motor Vehicle, Motor Vehicle Refueling Station, 1 Loading Arms (Total) and 0 Loading Arms (Gasoline), Distillate oil, Bottom/Submerged fill	Gilbarco Loading Arm	625-100		Exempt-distillate

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	(DIESEL DISPENSER, SERVICES BLDG AREA)				
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)
S-131	Storage, Refinery sludge, (WASTE WATER SLUDGE DRUM D2069)	N/A	N/A		29 MM gal/12-month (see S-208)
S-132	Storage, Caustic waste, (Tk 2711, SPENT CAUSTICS)	N/A	N/A		325 kBBL/year
S-133	Storage, Acid - waste, (TK 2712, SPENT ACID)	N/A	N/A		219 kBBL/year (average of 600 BBL/day)
S-134	Storage, Caustic waste, (TK 2713, SPENT CAUSTIC SURGE)	N/A	N/A		207 kBBL/year
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, Hydrocarbon – mixtures, other/not spec, (TK-103, Demulsifier Tank)	N/A	N/A	7 kgal	Exempt-additive
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)
S-144	Tank, Pseudo fixed roof tank, SILVER, Hydrocarbon - mixtures, other/not spec, (TK 5013, Neutralizing Amine (Pipestill))	N/A	N/A	1500 gal	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-150	Refinery sour waste water, (TK 2051, PRIMARY SLUDGE THICKENER)	N/A	N/A		3.19 MMBBL/year feed (design basis of 255 gpm)
S-151	Wastewater storage - ponds, Refinery	N/A	N/A		S-151 contains only

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	sour waste water, (Wastewater Equalization Pond)				diverted storm water during severe weather 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
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)
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)
S-156	Wastewater storage - ponds, (WASTE WATER RETENTION POND)	N/A	N/A		S-156 contains clean process water and rainwater. 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
S-157	Storage, Sulfur, (SULFUR STORAGE PIT AT SULFUR PLANTS)	N/A	N/A	1147 short tons/day (average of 47.8 short	116,800 short tons/year (combined permit condition

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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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
				tons/hour) Sulfur production	sulfur production from S-1 and S-2)
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)
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)
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)
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
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)
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
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)
S-168	Other petroleum products; Other, Paraffins - C3+, 1.7 N/A/hour max, 7	N/A	N/A	21.6 kgal/day	7.9 MMgal/year (based on 21.6

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	days/wk, 24 hours/day, 50 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C-2901)			(average of 15 gpm)	kgal/day)
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)
S-170	Tank, Vertical Fixed Roof, YELLOW, Hexane, Organic liquid -other/not spec, (TK 2317, Cationic Polymer (Utilities))	N/A	N/A	5479 gal	13675 gal/year
S-171	Tank, Vertical Fixed Roof, YELLOW, Methyl alcohol, (Methanol Storage Tank)	N/A	N/A	500 gal	26 kgal/hour
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))
S-174	Material Handling/Miscellaneous, Lime, (TK 2321, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year
S-175	Material Handling/Miscellaneous, Lime, (TK 2322, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year
S-176	Material handling - other/not, Salt, (TK 2325, Brine Saturator)	Scienco (or equivalent)	N/A	50 tons/day	600 tons/year
S-177	Solvent Cleaning, Solvent cleaning; (Solvent Cleaning Station-Dip Tank)	Custom	N/A		300 gal/hour
S-180	Tank, Vertical Fixed Roof, WHITE, Hydrocarbon - mixtures, other/not spec,	N/A	N/A	3 kgal	3000 gal/year

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	(Demulsifier Storage Tank, Breaxit 410)				
S-185	Tank, Vertical Fixed Roof, UN, Organic liquid -other/not spec, (Cationic Polymer Tank)	N/A	N/A	5 kgal	Exempt
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 MBBL/year (permit limit)
S-189	Separator - oil/water, Waste water, (Induced Static Flotation Cell)	L'eau Claire Int'l	75x	24 kBBL/day (permit limit)	8.76 MBBL/year (permit limit)
S-192	Other petroleum products; Other, Waste water (TK 2052, Thickener)	N/A	N/A		Exempt-additive
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)
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)
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)
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)
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)
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)
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)
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)
S-201	Loading, Truck, 1 Loading Arm (Total),	N/A	N/A		Exempt

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Waste water, Bottom/Submerged fill (Vacuum Truck Loading from Thickener Tank (S-192))				
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
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)
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)
S-207	Tank, External Floating Roof, GOLD, Multi-liquid, Welded, Pontoon (Tk 1740, MTBE/Mogas)	N/A	N/A	14,700 kgal	5.8 MMBBL/365-day (MTBE); 16.9364 MMBBL/365-day (mogas) (Condition #10797)
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)
S-209	Loading, Truck, 5 Loading Arms (Total), Methyl alcohol, Bottom/Submerged fill (Methanol Railcar Unloading Facility) Ethanol, Mogas/component service	N/A	"Dry-break" nozzles		2,920 trucks/12-month (Condition #9296)
S-210	Tank, External Floating Roof, - UN, Methyl alcohol, Welded (TK-1820, Methanol) Ethanol/Mogas component	N/A	N/A	630 kgal	575 kBBL methanol/12-month (Condition #9296)
S-211	Other petroleum products; Other, Methyl tertiary-butyl ether, (MTBE Process Unit)	N/A	N/A	4.5 kBBL/day MTBE product	1.642 MMBBL/year MTBE product (based on 4.5 kBBL/day)
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	N/A	N/A		Exempt

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	water - (BIOX Clarifier for Stripped Sour Water)				
S-217	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWEIGHT Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-218	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWEIGHT Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-219	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWEIGHT Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-220	Combustion, Furnace - Other, Refinery make gas (RMG) (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)
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)
S-232	Material handling - (ESP Fines Vacuum Conveying System)	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727)
S-233	Storage, (ESP Fines Storage Bin)	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727)
S-234	Fixed roof tank, 2kgal, demulsifier	N/A	N/A	2 kgal	121.8 kgal/year
S-235	Fixed roof tank, 1kgal, demulsifier	N/A	N/A	1 kgal	60.9 kgal/year
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
S-237	BOILER-SG1032-(new)	Babcock &	Type D;	75.60 ktherms/day	25.0536 MMtherms in

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
		Wilcox; Burners: Todd	Burners: Veriflame SV925 IGO	average of 315 MMBTU/hour (Condition #16027-19)	any 365 consecutive day period (average of 286 MMBTU/hour) (Condition #16027-18)
S-238	BIOX Aerator for stripped sour water	N/A	N/A		Exempt
S-239	Crude/Product dock Sump (TK-1918)	N/A	N/A		102 kgal/year
S-240	Emergency Diesel Engine for Break Tank Raw Water Pump, (P-2401C)	Caterpillar	3408 B, 550 HP		<100 hours/year reliability-related activities
S-241	Emergency Diesel Engine for Crude Field Firewater Pump, (P-2602)	Cummin	NT-855-FS, 230 HP		<100 hours/year reliability-related tivities
S-242	Emergency Diesel Engine for Dock Firewater Pump (P-2608B)	Cummin	VTA-1710-P700, 700 HP		<100 hours/year reliability-related activities
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)
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)
S-1004	Catalytic reforming, Reformate, (CATALYTIC REFORMER-(PFR))	N/A	N/A	39.8 kBBL/day (maximum actual) feed	12.7 MMBBL/year feed (actual 180-day average. of 34.9 kBBL/day)
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)
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)
S-1007	Alkylation, Alkylate, (ALKYLATION UNIT)	N/A	N/A	22.8 kBBL/day (limit based on A/N 3782)	year 8.32 MMBBL/year (based on 22.8 kBBL/day per A/N 3782)

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
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.
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)
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)
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)
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)
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)
S-1014	Feedstock; Other/not specified, (Cracked 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)
S-1019	Other petroleum products; Other (Laboratory Sample Waste Sinks)	N/A	N/A		Exempt
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)
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)
S-1022	Distillation - other, Refinery feedstock -	N/A	N/A	100 kBBL/day	36.5 MMBBL/year

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
	other/not spec, 100 thou barrels/day max, (Cat. Reformer T-90 Tower)				(based on 100 kBBL/day)
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)
S-1024	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 100 thou barrels/ day max, (Light Cat. Naphtha Hydrotreater)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day)
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)
S-1027	Pentane Rail Car Loading Rack	N/A	N/A		Exempt
S-1030	Combustion Turbine Generator (Refinery Fuel Gas and/or Natural Gas Fired)	General Electric	LM 6000	500 MMBTU/hour	6,341,000 MMBTU/year (combined S-1030 & S-1031)
S-1031	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,341,000 MMBTU/year (combined S-1030 & S-1031)
S-1032	Combustion Turbine Generator (Refinery Fuel Gas and/or Natural Gas Fired)	General Electric	LM 6000	500 MMBTU/hour	6,341,000 MMBTU/year (combined S-1032 & S-1033)
S-1033	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,341,000 MMBTU/year (combined S-1032 & S-1033)
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

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 for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity	Throughput
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

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	A-Cell Electrostatic Precipitator (ESP)	34	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
2	B-Cell Electrostatic Precipitator (ESP)	34	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
3	C-Cell Electrostatic Precipitator (ESP)	34	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
4	D-Cell Electrostatic Precipitator (ESP)	34	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
5	E-Cell Electrostatic Precipitator (ESP)	34	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
6	Baghouse on WWEIGHTP 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
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	8-5-311.3	Tank pressure	95% recovery efficiency
12	Vapor Recovery Compressor on TK-1735	124	8-5-311.3	Tank pressure	95% recovery efficiency
13	Vapor Recovery Compressor Flare Gas Recovery Header	9, 133, 188, 189	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	8-5-311.3	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	10	6-302	Main Stack opacity	20% opacity

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	Railcar Unloading Hopper			CEM (1-520.5/.6)	< 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
25	Thermal De-NOx System on F-401	23	COND ID# 14318 [1]	NOx/O2 CEM on F-401 stack (COND ID# 14318 [2])	40 ppm @ 3% O2, 8 hour average.
26	Vapor Recovery Compressor Flare Gas Recovery Header	9, 133, 188, 189	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, COND ID# 1709 [3]	VOC continuous monitor on DVRU stack (COND ID# 1709 [5])	95% recovery efficiency, or 2 lb VOC/1,000 BBL loaded
36	Carbon Canisters on WWEIGHTP Upstream Diversion Tanks	193, 196, 205, 206	COND ID# 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 beds (COND ID# 11880 [3], [7])	15 lb/day total NMHC from A-36 and A-37, averaged over one month, 95% recovery efficiency (NSPS Kb, NESHAPS FF)
37	Carbon Canisters on WWEIGHTP On-Site Equipment	131, 150, 194, 195, 197, 198, 199, 200	COND ID# 11879 (10), COND ID# 11882 (10), COND ID# 11888 (10), COND ID# 13319 (15), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/37 carbon beds (COND ID# 11879 [11], [16], COND ID# 11882 [11], [16], COND ID# 11888 [11], [16], COND ID# 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 WWEIGHTP sludge from TK-2051	201	COND ID# 11883 (1)	Fugitive inspection	100 ppm leak standard
39	Vapor Balance System on truck loading WWEIGHTP sludge from D-2069	202	COND ID# 11884 (1)	Fugitive inspection	100 ppm leak standard
40	Vapor Recovery Compressor	65, 69, 70,	None (exempt	None	None

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	on Coker Feed Tanks	71	tanks)		
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	COND ID# 10574 [23], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on F-4460 stack COND ID# 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	8-5-311.3, COND ID# 10574 [42], 60.112b(a)(3)(ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
47	Vapor Recovery Compressor for TK-1741	227	8-5-311.3, COND ID# 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, COND ID# 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	9-10-303.1 (until 7/1/02), 9-10-304.1 (after 7/1/02)	NOx/O2 CEM on Main Stack after 7/1/02 (9-10-502)	300 ppm, dry, 3% O2 (until 7/1/02), 150 ppm, dry, 3% O2 (after 7/1/02), daily average.
53	Thermal De-NOx System for F-102	4	9-10-303.1 (until 7/1/02), 9-10-304.1 (after 7/1/02)	NOx/O2 CEM on Main Stack after 7/1/02 (9-10-502)	300 ppm, dry, 3% O2 (until 7/1/02), 150 ppm, dry, 3% O2 (after 7/1/02), daily average.
54	Baghouse on ESP fines vacuum conveying system	232	6-301, COND ID# 12727 (3)	Visible emissions from vacuum conveying system	Ringelmann No. 1 < 3 min/hr
55	Baghouse on ESP fines storage bin	233	6-301, COND ID# 12727 (4)	Visible emissions from storage bin	Ringelmann No. 1 < 3

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
					min/hr
56	Tail Gas Cleanup Unit on SGU A/B Trains (includes both Beavon and Flexsorb Sections)	1, 2	9-1-307	TRS continuous monitor on Flexsorb Stack (COND ID# 125 [2], COND ID# 126 [2])	250 ppm SO2 at 0% O2 for < 1 hour
57	Thermal Oxidizer for WWEIGHTP On-Site equipment	131, 150, 194, 195, 197, 198, 199, 200	COND ID# 11879 (3), (4), COND ID# 11882 (3), (4), COND ID# 11888 (3), (4), COND ID# 13319 (3), (4), 61.349(a)(2)(i)(A)	Continuous temperature monitor on oxidizer outlet (COND ID# 11879 [5], COND ID# 11882 [5], COND ID# 11888 [5], COND ID# 13319 [5]), 61.354(c)(1)	1400 F minimum outlet temperature to ensure >98.5 weight.% destruction efficiency, (>95% destruction efficiency for NESHAPS FF)
58	Selective Catalytic Reduction for SG-1032	237	COND ID# 16027 [12], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on SG-1032 stack (COND ID# 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	COND ID# 19177- (18a), (19b); NSPS Db: 60.44b(e) and 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	COND ID# 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	COND ID# 19177- (18a),	NOx CEM (COND# 19177-38; NSPS Db:	Natural gas-Firing: 2.5

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			(19b); NSPS Db: 60.44b(e) and 60.44b(l)(1); BAAQMD 10-4 (NSPS Db)	60.48b(b)(1); BAAQMD (NSPS Db)	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	COND ID# 19177- (18b), (19d)	CO CEM (COND# 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
176	Baghouse on Brine Saturator Tank (future requirement only if dry salt vs. brine is added)	176	6-301, COND ID# 31411 [1]	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr

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 (05/02/2001)	N
SIP Regulation 2 · Rule 1	Permits, General Requirements (SIP Approved) (08/27/1999)	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

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)
BAAQMD · Regulation 2 · Rule 4	Permits, Emissions Banking (05/17/2000)	N
SIP Regulation 2 · Rule 4	Permits, Emissions Banking (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 6	Permits, Major Facility Review (05/02/2001)	Y
BAAQMD · Regulation 2 · Rule 9	Permits, Interchangeable Emission Reduction Credits (04/07/1999)	N
BAAQMD · Regulation 3	Fees (11/15/2000)	Y
BAAQMD · Regulation 4	Air Pollution Episode Plan (03/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (SIP Approved) (08/06/1990)	Y
BAAQMD · Regulation 5	Open Burning (11/02/1994)	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 (12/20/95)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (5/15/96)	N
SIP Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD · Regulation 8 · Rule 9	Organic Compounds, Vacuum Producing Systems (07/20/1983)	Y
BAAQMD · Regulation 8 · Rule 10	Organic Compounds, Process Vessel Depressurization (07/20/1983)	Y
BAAQMD · Regulation 8 · Rule 28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries (03/18/1998)	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 (3/22/95)	Y

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)
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD · Regulation 10 · Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)	N
BAAQMD · Regulation 11 · Rule 2	Hazardous Pollutants, Asbestos Demolition and Renovation. (10/07/1998)	Y
BAAQMD · Regulation 11 · Rule 12	NESHAPS Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (9/2/81)	Y
NESHAPS Title 40 Part 61 Subpart M	NESHAPS, Asbestos (11/20/1990)	Y
Title 40 Part 68	Chemical Accident Prevention Provisions (01/31/1994)	Y
Title 40 Part 82 Subpart F	CFC Recycling and Emissions Reduction (05/14/1993)	Y
Title 40 Part 82 Subpart F 82.156	Recycling and Emissions Reductions - Required Practices (08/08/1995)	Y
Title 40 Part 82 Subpart F 82.161	Recycling and Emissions Reductions - Technician Certification (11/09/1994)	Y
Title 40 Part 82 Subpart F 82.166	Recycling and Emissions Reductions - Reporting and Recordkeeping Provisions (08/08/1995)	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	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	Y	
BAAQMD Regulation 8, Rule 5	**Storage of Organic Liquids (12/15/99)**		
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-404	Certification	Y	
8-5-404.3	For tank degassing equipment	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-502	Tank cleaning annual source test requirement	Y	
8-5-603	Determination of emissions	Y	
8-5-603.2	Source tests for tank cleaning equipment	Y	
BAAQMD Regulation 8, Rule 8	**Wastewater (Oil-Water) Separators (6/15/94)**		
8-8-308	Junction Box	Y	
BAAQMD · Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)**		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation (applies only when area monitoring for SO2 is not in compliance)	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 (6/8/99)**		
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 (08/06/1999)**		
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	
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	

[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	Federally Enforceable (Y/N)	Future Effective Date
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 60.8	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 (01/07/1993)**		
40 CFR 61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
40 CFR 61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment units operated in accordance with 61.342(c)(1)(i)	Y	
40 CFR 61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for treatment units for recycled wastes. Recycled wastes subject to 61.342(c)	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
40 CFR 61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(c)(1)	Y	
40 CFR 61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
40 CFR 61.342(e)(2)(i)	Standards: General; [Uncontrolled] 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 quality per	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	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	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 (03/16/1994)**		
40 CFR 63.1(a)(1)	Terms used throughout this part are defined in section 63.2	Y	
40 CFR 63.1(a)(2)	This part contains NESHAPS pursuant to Section 112 of Federal Clean Air Act. These NESHAPS are independent of NESHAPS in 40 CFR 61.	Y	
40 CFR 63.1(a)(3)	Emission standard in this part does not replace a more stringent standard in another rule.	Y	
40 CFR 63.1(a)(11)	Submittal postmarked within required timeframe is sufficient.	Y	
40 CFR 63.1(a)(12)	Time periods may be extended if mutually agreed upon, as allowed under 63.9(i)	Y	
40 CFR 63.1(a)(13)	Special provision in another applicable subpart supercedes conflicting provisions in this subpart.	Y	
40 CFR 63.1(a)(14)	Federal enforceability	Y	
40 CFR 63.1(b)(2)	Sources under this subpart may also be required to obtain local permit.	Y	
40 CFR 63.1(c)(4)	If an extension is obtained for specific provision, all other provisions still apply.	Y	
40 CFR 63.1(c)(5)	Applicability	Y	
40 CFR 63.2	Definitions	Y	
40 CFR 63.4(a)(1)	Sources may not operate in violation, unless an extension or exemption has been obtained	Y	
40 CFR 63.4(a)(2)	Recordkeeping and reporting requirements must be met	Y	
40 CFR	Source must also comply with local requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.4(a)(3)			
40 CFR 63.4(a)(5)	Source must comply with applicable standards even if Title V permit not issued or updated	Y	
40 CFR 63.4(b)	Circumvention	Y	
40 CFR 63.4(c)	Severability	Y	
40 CFR 63.5(a)	Construction and reconstruction applicability	Y	
40 CFR 63.5(a)(1)	Construction and Reconstruction	Y	
40 CFR 63.5(a)(2)	Construction and Reconstruction	Y	
40 CFR 63.5(b)(1)	Upon construction or reconstruction, subject to standards for new sources	Y	
40 CFR 63.5(b)(3)	Prior written approval of administrator required before constructing or reconstructing	Y	
40 CFR 63.5(b)(4)	Construction and Reconstruction	Y	
40 CFR 63.5(b)(5)	Construction and Reconstruction	Y	
40 CFR 63.5(b)(6)	Equipment added to affected source becomes part of affected source, and is subject to relevant standards for source	Y	
40 CFR 63.5(d)(1)(i)	Construction and Reconstruction	Y	
40 CFR 63.5(d)(1)(ii)	Separate applications for each construction or reconstruction	Y	
40 CFR 63.5(d)(3)	Application for approval of construction	Y	
40 CFR 63.5(d)(4)	Additional information	Y	
40 CFR 63.5(e)	Approval of construction or reconstruction	Y	
40 CFR 63.5(f)(1)	Approval of construction or reconstruction based on local pre-construction review	Y	
40 CFR 63.5(f)(2)	Construction and Reconstruction	Y	
40 CFR 63.6(a)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(b)(3)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(c)(5)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(e)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(1)	Compliance with non-opacity emission standards - applicability	Y	
40 CFR 63.6(f)(2)(i)	Determine compliance with non-opacity standard based on performance	Y	
40 CFR 63.6(f)(2)(ii)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR	Compliance with Standards and Maintenance Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.6(f)(2)(iii)(A)			
40 CFR 63.6(f)(2)(iii)(B)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(2)(iii)(C)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(2)(iv)	Determine compliance by reviewing records, inspections	Y	
40 CFR 63.6(f)(2)(v)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(3)	Finding of compliance	Y	
40 CFR 63.6(g)	Use of alternative non-opacity emission standard	Y	
40 CFR 63.6(h)(1)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(h)(2)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(h)(6)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(i)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(j)	Exemption from compliance with emission standard	Y	
40 CFR 63.10(a)	Recordkeeping and reporting - applicability and general information.	Y	
40 CFR 63.10(b)(1)	Keep records for 5 years.	Y	
40 CFR 63.10(b)(2)(i)	Records of startup, shutdown, or malfunction of operation.	Y	
40 CFR 63.10(b)(2)(ii)	Records of malfunction of air pollution control equipment	Y	
40 CFR 63.10(b)(2)(iv)	Record of actions deviating from startup, shutdown, and malfunction plan.	Y	
40 CFR 63.10(b)(2)(v)	Records to determine conformance with startup, shutdown, and malfunction plan.	Y	
40 CFR 63.10(b)(2)(vi)	Records on monitor malfunction of non-operation	Y	
40 CFR 63.10(b)(2)(vii)	Records of all measurements needed to demonstrate compliance with a standard.	Y	
40 CFR 63.10(b)(2)(viii)	Records of performance tests, monitor evaluations, and opacity/visible emissions observations	Y	
40 CFR 63.10(b)(2)(x)	Records of monitoring system calibration checks.	Y	
40 CFR 63.10(d)(4)	Progress reports for extension of compliance	Y	
40 CFR	Periodic startup, shutdown, and malfunction reports.	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.10(d)(5)(i)			
40 CFR 63.10(d)(5)(ii)	Immediate startup, shutdown, and malfunction reports.	Y	
40 CFR 63.10(f)	Waiver of recordkeeping and reporting requirements	Y	
40 CFR 63.11	Control Device Requirements	Y	
40 CFR 63.12	State Authority and Delegation	Y	
40 CFR 63.13	Addresses of EPA Regional Office	Y	
40 CFR 63.14	Incorporation by Reference	Y	
40 CFR 63.15	Availability of Information and Confidentiality	Y	
40 CFR 63.7(a)(3)	Administrator may require a performance test	Y	
40 CFR 63.7(d)	Performance testing facilities.	Y	
40 CFR 63.7(e)(1)	Performance Testing Requirements	Y	
40 CFR 63.7(e)(2)	Performance Testing Requirements	Y	
40 CFR 63.7(e)(4)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(1)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(2)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(3)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(5)	Performance Testing Requirements	Y	
40 CFR 63.8(b)(1)	Conducting monitoring	Y	
40 CFR 63.8(b)(3)	Using more than one monitoring system to measure emissions.	Y	
40 CFR 63.8(c)(1)	Monitoring Requirements	Y	
40 CFR 63.8(c)(1)(i)	Permit holder shall keep necessary parts to repair “routine” malfunctions, as identified in malfunction plan, per 63.6(e)(3)	Y	
40 CFR 63.8(c)(1)(ii)	Monitoring Requirements	Y	
40 CFR 63.8(c)(1)(iii)	Applicable operation and maintenance procedures	Y	
40 CFR 63.8(c)(2)	Monitoring systems shall measure representative emissions, parameters.	Y	
40 CFR 63.8(c)(3)	Monitors shall be installed prior to, or in conjunction with, performance tests under 63.7	Y	
40 CFR 63.8(f)(1)	Use of alternative monitoring method	Y	
40 CFR	Administrator may approve alternative monitoring upon written request	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.8(f)(2)			
40 CFR 63.8(f)(3)	If administrator has reasonable grounds to dispute results of alternative monitoring, the administrator may require specific monitoring	Y	
40 CFR 63.8(f)(4)(ii)	Monitoring Requirements	Y	
40 CFR 63.8(f)(5)(i)	Monitoring Requirements	Y	
40 CFR 63.8(f)(5)(iii)	Monitoring Requirements	Y	
40 CFR 63.9(a)	Notification requirements – applicability and general information	Y	
40 CFR 63.9(b)(4)	Notification Requirements	Y	
40 CFR 63.9(b)(5)	Notification Requirements	Y	
40 CFR 63.9(c)	Notification Requirements	Y	
40 CFR 63.9(d)	Notification Requirements	Y	
40 CFR 63.9(i)	Adjustments to time periods or postmark deadlines for submittal and review of required communications	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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,	Y	

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	recordkeeping, and reporting requirements under this subpart.		
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 63.642	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	
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	

Table IV – Refinery
Generally Applicable Condition

IV. Source Specific Applicable Requirements

Table IV – Refinery
Generally Applicable Requirements
which Require Routine Monitoring

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Applicable Condition	**Regulation Title or Description of**	**Federally Enforceable (Y/N)**	**Future Effective Date**
BAAQMD Condition # 19466-4	The owner/operator shall notify the District no less than three calendar days in advance of the startup or shutdown of any source. [Basis: Regulation 2-1-403]	Y	

IV. Source Specific Applicable Requirements

Table IV - A1

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

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	
6-305	Visible Particles	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 (06/08/1999)**		
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	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 (01/05/1994)**		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	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	Federally Enforceable (Y/N)	Future Effective Date
8.1.018		**Permit to Operate S-1 & S-2 SRU (SPIP) and TGCU**		
125	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	
125	2	Deleted.		
125	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: 9-1-312.2, odors]	Y	
125	4	Except during upset conditions, the tail gases from the S-1 Sulfur Recovery Unit shall be routed to and cleaned up by the Flexsorb SE Tail Gas Treatment Unit (A-56). The recovered hydrogen sulfide shall be returned to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: 9-1-312.2, odors]	Y	
18344	1	Deleted. (Application #3902, 1/02)		
18344	2	Deleted. (Application #3902, 1/02)		
19466	1	The Permit Holder shall conduct an annual District-approved source test on the S-1 and S-2 Claus Units to demonstrate that 95% of the H2S in the refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of the H2S in the process water streams is removed and recovered on a refinery-wide basis AND 95% of the ammonia in the process water stream is removed. 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. The test shall include sampling of the inlet and outlet of the fuel gas scrubber and sour water stripper towers. [Basis: Regulation 9-1-313.2]	Y	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]		Y
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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		Y

IV. Source Specific Applicable Requirements

		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 6-310]	
19466	8	The Permit Holder shall perform semi-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 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 6-330]	Y

IV. Source Specific Applicable Requirements

Table IV - A2
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
S-2 (F-1301B, NAT.GAS)

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	
6-305	Visible Particles	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 (06/08/1999)**		
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	N	
SIP Limitations	**Regulation 9 · Rule 1** **Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions (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 (01/05/1994)**		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	

IV. Source Specific Applicable Requirements

Table IV - A2
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
S-2 (F-1301B, NAT.GAS)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.018		**Permit to Operate S-1 & S-2 SRU (SPIP) and TGCU**		
126	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	
126	2	Deleted.		
126	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	
126	4	Except during upset conditions, the tail gases from the S-2 Sulfur Recovery Unit shall be routed to and cleaned up by the Flexsorb SE Tail Gas Treatment Unit (A-56). The recovered hydrogen sulfide shall be returned to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: 9-1-313.2]	Y	
18344	1	Deleted. (Application #3902, 1/02)		
18344	2	Deleted. (Application #3902, 1/02)		
19466	1	The Permit Holder shall conduct an annual District-approved source test on the S-1 and S-2 Claus Units to demonstrate that 95% of the H2S in the refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of the H2S in the process water streams is removed and recovered on a refinery-wide basis AND 95% of the ammonia in the process water stream is removed. 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. The test shall include sampling of the inlet and outlet of the fuel gas scrubber and sour water stripper towers. [Basis: Regulation 9-1-313.2]	Y	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]		Y
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate		Y

IV. Source Specific Applicable Requirements

		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 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 6-310]	
19466	8	The Permit Holder shall perform semi-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 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 6-330]	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	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	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	
SIP Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	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	
6-305	Visible Particles	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 (01/05/1994)**		
9-10-303.1	Interim Emission Limit for CO Boilers (Federal Requirements)	Y	
9-10-304	Emission Limit for CO Boilers, NOx	Y	07/01/2002
9-10-304.1	Emission Limit for CO Boilers, NOx	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	Federally Enforceable (Y/N)	Future Effective Date
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.015		**Permit to Operate S-3 (A-52) & S-4 (A-53) Thermal DeNOx System**		
11030	1	The start-up of the CO Furnaces (S-3 and S-4) shall not exceed 72 hours. [Basis: Cumulative Increase]	Y	
11030	2	The shutdown of the CO Furnaces (S-3 and S-4) shall not exceed 120 hours. [Basis: Cumulative Increase]	Y	
11030	3	When the ER&E Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 300 ppm, dry at 3% oxygen, based on an operating day average. [Basis: Cumulative Increase]	Y	
11030	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	
11030	5	Deleted.		
11030	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	
11030	7	The total consumption of refinery fuel gas at each source shall not exceed the following: S-3 CO Furnace: 30.6 Million therms per hour (Basis: Cumulative Increase) S-4 CO Furnace: 14.9 Million therms per hour (Basis: Cumulative Increase)		
19466	5	The emissions from the S-3 and S-4 CO Boilers shall be abated by the A-1 through	Y	

IV. Source Specific Applicable Requirements

A-5 Electrostatic Precipitators and exhausted through the main stack (P-1).
[Basis: Regulation 6-301 and Regulation 6-304].

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	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) (06/28/1999)**		
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	
6-501	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 · Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)**		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO2	N	

IV. Source Specific Applicable Requirements

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	Federally Enforceable (Y/N)	Future Effective Date
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Claiming Kilns	N	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	N	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	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	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	
1-520.6	Continuous Emission Monitoring	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) (06/28/1999)**		
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	
6-501	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 · Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)**		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO2	N	

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	Federally Enforceable (Y/N)	Future Effective Date
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	N	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	N	
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 (06/12/1996)**		
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 emissions	Y	

Applicable Condition Date	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	6 The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	
19466	9 The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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	Y	

IV. Source Specific Applicable Requirements

made available to District staff upon request. [Basis: Regulation 6-311]

IV. Source Specific Applicable Requirements

Table IV - A6.1
Source-Specific Applicable Requirements
Process Furnaces
S-7, S-20, S-24, S-26, S-34, S-35 (F-103, F-104, F-601, F-801, F-2905, F-2906)

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	
6-305	Visible Particles	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 (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	

Applicable Condition Date		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	10	The Permit Holder shall conduct a District-approved source test on an semi-annual basis on Sources S-7, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-38 and S-39 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	

IV. Source Specific Applicable Requirements

Table IV - A6.2
Source-Specific Applicable Requirements
Process Furnaces
S-13, S-50 (F-702, F-901)

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	
6-305	Visible Particles	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 (01/05/1994)**		
9-10-112	Limited Exemption, Low Fuel Usage	N	
9-10-306	Small Unit Requirements	Y	
9-10-306.2	Small Unit Requirements	Y	
9-10-402	Control Plan Submittal, Small Units	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-502.2	Monitoring	Y	07/01/2002
9-10-605	Tune-up Procedures	Y	

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Table IV - A7
Source-Specific Applicable Requirements
Steam Generators
S-38, S-39 (SG-703, SG-2901)

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	
6-305	Visible Particles	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 (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-501	Initial Demonstration of Compliance	Y	Various
9-10-501.1	Initial Demonstration of Compliance	Y	07/01/2002
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	

Applicable Condition Date		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	10	The Permit Holder shall conduct a District-approved source test on an semi-annual basis on Sources S-7, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-38 and S-39 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	

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Table IV - A8
Source-Specific Applicable Requirements
Flares
S-16, S-17, S-18 (ST-2101AG, ST-1701, ST-2101)

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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19176		**Permit Conditions for S-16, S-17, S-18, and S-19**		
19176	1	The Flares, S-16, S-17, S-18, S-19 should be inspected as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using a gas flow meters for S-16, S-18 and S-19, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6-409.2]	Y	
19176	2	The operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S-19, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S-18, S-19, and all instances which operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis Regulation 2-6-409.2]	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
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 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	Y	

IV. Source Specific Applicable Requirements

	by 60.105(a)(3))		
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)	Method 11 shall be used to verify compliance with 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	

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19176		**Permit Conditions for S-16, S-17, S-18, and S-19**		
19176	1	The Flares, S-16, S-17, S-18, S-19 should be inspected as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using gas flow meters, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6-409.2]	Y	
19176	2	The operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S-18, S-19, and all instances which operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis: Regulation 2-6-409.2]	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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	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	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	
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 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	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	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	
10574	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 in the CFP combustion sources (S-21, S-22 and S-220). [Basis: Monitoring and Records].	Y	
10574	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	
10574	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	
10574	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,	Y	

IV. Source Specific Applicable Requirements

respectively.) [Basis: BACT, Cumulative Increase, New Source Review trigger, Offsets, SO2 Contemporaneous offset credits for S02 and PMIO in Application #18888].

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	19	Deleted.		
10574	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: 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	
10574	21	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 shall be limited to Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]	Y	
10574	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	
10574	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	
10574	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	
10574	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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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: ~~BARCT~~ BAAQMD 9-10]	Y	
10574	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	
10574	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: ~~BARCT,~~ Cumulative Increase, Toxics]	Y	
10574	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: ~~BARCT,~~ Cumulative Increase, Toxics]	Y	
10574	40	Deleted.		
10574	41	Deleted.		
10574	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	
10574	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	
10574	H	Any process vessel depressurization shall be vented to a control device with tan overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
10574	I	Deleted.		

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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	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	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	
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 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	

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	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.032		**Permit to Operate S-23 (F-401) Gas/Oil Hydrocracking Furnace**		
14138	1	Emissions of NMHC from S-23 (furnace F-401) shall not exceed 10 lb/day. [Basis: BACT]	Y	
14318	2	Emission of NOx shall not exceed 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]	Y	
14318	3	NOx and oxygen shall be continuously monitored (per Manual of Procedures). [Basis: Cumulative Increase]	Y	
14318	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	
14318	5	As per Regulation 10-14, hydrogen sulfide shall be continuously monitored and shall not exceed 160 ppm (dry). [Basis: Cumulative Increase, BAAQMD 10-8-303]	Y	
14318	6	All data pertaining to (1), (2), (3), (4), above shall be readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verification through Records]	Y	
19466	10	The Permit Holder shall conduct a District-approved source test on an semi-annual basis on Sources S-7, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-38 and S-39 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	

IV. Source Specific Applicable Requirements

Table IV - A12.1
Source-Specific Applicable Requirements
Process Furnaces
S-25 (F-701)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-522	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	

IV. Source Specific Applicable Requirements

Table IV - A12.1
Source-Specific Applicable Requirements
Process Furnaces
S-25 (F-701)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	

Applicable Condition	Date	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	10	The Permit Holder shall conduct a District-approved source test on an semi-annual basis on Sources S-7, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-38 and S-39 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	

IV. Source Specific Applicable Requirements

Table IV - A12.2
Source-Specific Applicable Requirements
Process Furnaces
S-30, S-31, S-32, S-33 (F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	

IV. Source Specific Applicable Requirements

Table IV - A12.2
Source-Specific Applicable Requirements
Process Furnaces
S-30, S-31, S-32, S-33 (F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	Y	Various
9-10-501.1	Initial Demonstration of Compliance	Y	07/01/2002
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	

Applicable Condition	Date	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	10	The Permit Holder shall conduct a District-approved source test on an semi-annual basis on Sources S-7, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-38 and S-39 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	

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	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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	

Applicable Condition Date		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	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	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	
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	
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	

Applicable Condition Date		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective
19466	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 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-9-301.1]	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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-305	Visible Particles	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 (01/05/1994)**		
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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.016		**Permit to Operate S-37(SG-702 Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine**		
16386	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	
16386	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	
16386	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	
16386	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	
16386	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	
16386	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 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 - A14.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	**General Provisions and Definitions (05/02/2001)**		
1-520	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-305	Visible Particles	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 between May 1 and October 31.	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	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	Federally Enforceable (Y/N)	Future Effective Date
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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.016		**Permit to Operate S-37(SG-702 Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine**		
16386	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	
16386	2	Deleted		
16386	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	
16386	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	
16386	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. < enforceability of contemporaneous banking credit,	Y	
16386	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 credits 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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	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	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	
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 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	

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	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.007		**Permit to Operate S-209, 210, 211 MTBE Process Unit**		
9296	D1	For the S-40 Steam Boiler: The steam boiler (S-40) shall be equipped with Low NOx burners and flue gas recirculation. [~~BARCT~~ BAAQMD 9-10, Offsets, Cumulative Increase]	Y	
9296	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	
9296	D3	For the S-40 Steam Boiler: The CO concentration shall not exceed 400 ppmv, dry, corrected to 3 % oxygen. [~~BARCT~~ BAAQMD 9-10, Cumulative Increase]	Y	
9296	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	
9296	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	
9296	D7	The maximum firing rate of the S-40 Utility package Boiler shall not exceed 218 million Btu per hour. (Cumulative Increase, Toxics)	Y	
9296	D8	Deleted.		
9296	D9	Deleted.		
9296	D10	For the S-40 Steam Boiler: The Permit Holder shall keep records of all necessary information to demonstrate compliance with all permit conditions. 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: CEM data and CEM indicated excesses; Fuel gas H2S concentration (24-hour average); Fuel gas total reduced sulfur concentration (24 hour Average) Fuel gas type and fuel usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual daily firing rate (Btu/day) [Cumulative Increase, Offsets]	Y	
9296	D11	Deleted.		

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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	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	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	Y	Various
9-10-501.1	Initial Demonstration of Compliance	Y	07/01/2002
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	
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 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	

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	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

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	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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · 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	N	
9-10-306	Small Unit Requirements	Y	
9-10-306.2	Small Unit Requirements	Y	
9-10-402	Control Plan Submittal, Small Units	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-502.2	Monitoring	Y	07/01/2002
9-10-605	Tune-up Procedures	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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
BAAQMD · Regulation 9 · Rule 10	**NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002

IV. Source Specific Applicable Requirements

9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	

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 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 (09/30/1999)**

Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.027		**Permit to Operate S-173 (F-902) Boiler-Steam Superheater**		
254	1	The NOx emission shall not exceed 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]	Y	
254	2	Furnace F-1060shall not operate for more than 30 days per year. [Basis: Cumulative Increase]	Y	
254	3	A District approved Source Test shall be conducted within 30 days after start-up and every six months thereafter to determine compliance with condition #1. [Basis: Cumulative Increase]	Y	
254	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	

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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
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 (01/05/1994)**		
9-10-301	Emission Limit for Facility, NOx	Y	07/01/2002
9-10-301.1	Units in Start-up or Shutdown	Y	07/01/2002
9-10-301.2	Units Out of Service	Y	07/01/2002

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	Federally Enforceable (Y/N)	Future Effective Date
9-10-302	Interim Emission Limit for Facility	Y	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	Y	07/01/2002
9-10-401.1	Control Plan Submittal	Y	
9-10-403	Compliance Date, Clean-Fuel Extension Allowance	Y	
9-10-501	Initial Demonstration of Compliance	Y	Various
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)	Y	
9-10-502	Monitoring	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	Y	07/01/2002
9-10-502.2	Monitoring	Y	07/01/2002
9-10-504	Records	Y	07/01/2002
9-10-505.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.1	Reporting Requirements	Y	07/01/2002
9-10-505.2.2	Reporting Requirements	Y	07/01/2002
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	
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 60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
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	
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(h)(4)	Excess Emissions Definition	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	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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(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 (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	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	
10574	6	Deleted.		
10574	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	
10574	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	
10574	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-1025, 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	
10574	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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	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	
10574	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	
10574	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	
10574	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 S02 and PMIO in Application #18888]	Y	
10574	19	Deleted.		

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	21	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 shall be limited to Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]	Y	
10574	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	
10574	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	
10574	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	
10574	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	
10574	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	
10574	27	Deleted.		

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	30	The maximum firing rate of the S-220 MRU Hot Oil Furnace shall not exceed 351 million Btu per hour. [Basis: ~~BARCT,~~ Cumulative Increase, Toxics]	Y	
10574	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	
10574	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	
10574	H	Any process vessel depressurization shall be vented to a control device with tan overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
10574	I	Deleted.		

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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
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	

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	Federally Enforceable (Y/N)	Future Effective Date
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 60.44b(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	
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	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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(h)(4)	Excess Emissions Definition	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 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	

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	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	**NSPS 40 Part 60 Appendix B (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.050A		**Permit to Operate Temperature Boiler SG-1032**		
16027	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	
16027	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	
16027	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	
16027	5	Fuel Gas System: 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 low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. < Basis: Cumulative Increase >	Y	
16027	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	
16027	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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.050A		**Permit to Operate Temperature Boiler SG-1032**		
16027	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	
16027	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	
16027	10	Visible emissions from the S-237 Boiler shall be limited to Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. < Basis: BAAQMD 6-301>	Y	
16027	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	
16027	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	
16027	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	
16027	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	
16027	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	Y	

IV. Source Specific Applicable Requirements

3-hour period. Demonstration of compliance shall be based on source test data. < Basis: Cumulative Increase, Toxics>

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.050A		**Permit to Operate Temperature Boiler SG-1032**		
16027	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	
16027	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	
16027	19	The total combined heat input for S-237 shall not exceed 7,60 million BTUs in any calendar day period. < Basis: Cumulative Increase>	Y	
16027	20	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. < Basis: Permanency of Contemporaneous Banking credit, Offsets>	Y	
16027	21	The emissions from the S-37 Steam generator and the S-45 Gas Turbine shall be abated by the A-51 Selective Catalytic Reduction System at all times in which it is In operation. to meet the requirements of Condition 20. < Basis: Permanency of Contemporaneous Banking credit, Offsets>	Y	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	
19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf	Y	

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		@ 6% oxygen). 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 6-310.3]	
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	Y

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	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	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 · Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)**		
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 ()**		
9-8-110.4	Exemptions: Emergency Standby Engines	Y	
9-8-330.1	Emergency Standby Engines, Hours of Operation	Y	
9-8-330.2	Emergency Standby Engines, Hours of Operation	Y	
9-8-530.1	Hours of operation (total)	Y	
9-8-530.2	Hours of operation (emergency)	Y	
9-8-530.3	Nature of emergency condition	Y	

Applicable Condition		Regulation Title or Description of Permit to Operate S-240, S-241, S-242	Federally Enforceable (Y/N)	Future Effective Date
18748	1.	The engines for emergency generators S-240, S-241, and S-242 shall be fired 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] "Emergency Conditions" is defined as any of the following: [Basis: Regulation 9-8-231] a. Loss of regular natural gas supply b. Failure of regular electric power supply c. Flood mitigation d. Sewage overflow mitigation e. Fire f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor		Y

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18748	2.	S-240, S-241, and S-242 shall only be operated to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 100 hours in any calendar year at each engine. Operation while mitigating emergency conditions is unlimited. [Basis: Regulation 9-8-330, Cumulative Increase] "Reliability-related activities" is defined as any of the following:[Basis: Regulation 9-8-232] a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or b. Operation of an emergency standby engine during maintenance of a primary motor		Y
18748	3.	S-240, S-241, and S-242 shall be equipped with either:[Basis: Regulation 9-8-530] a. a non-resettable totalizing meter that measures and records the hours of operation for the engine OR b. a non-resettable fuel usage meter; the following factors shall be used to convert fuel usage to hours of operation: S-240: 31 gal/hr S-241: 13 gal/hr S-242: 39 gal/hr	Y	
18748	4.	The following monthly records shall be maintained in a District-approved log for at least 5 years for S-240, S-241, and S-242 and shall be made available for District inspection upon request: [Basis: Regulations 9-8-530, 1-441] a. Total hours of operation for each engine b. Hours of operation under emergency conditions for each engine and a description of the nature of each emergency condition c. Fuel usage for each engine	Y	

The Permit Holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and 02. <Monitoring and records>

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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
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	
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	

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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	Federally Enforceable (Y/N)	Future Effective Date
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 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 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	
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 (11/05/1987)**		
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(a)	SO2 Standard of 0.015 percent by volume (dry, 15% O2)	Y	
40 CFR 60.333(b)	Fuel Sulfur Content cannot exceed 0.8 percent by weight	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	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.334(b)(2)	Monitoring Requirement for Sulfur content in fuel	Y	
40 CFR 60.334(c)(2)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.335(b)	Performance testing per 60.8 shall follow Appendix A Test Methods	Y	
40 CFR 60.335(c)(3)	Use Method 20 to determine sulfur dioxide concentration	Y	
40 CFR 60.335(d)	Fuel sulfur content compliance methods	Y	
40 CFR 60.335(e)	Fuel sulfur content test methods	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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	2	For SO2 emissions offsets, a curtailment group is established as follows: (Basis: SO2 offsets)Curtailment Group: Emission Sources Total Group BaselineS-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	
19177	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	
19177	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	
19177	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	

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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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	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 S-1032 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	
19177	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	18(a)	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	
19177	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	
19177	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	
19177	18(d)	Precursor organic compound (POC) mass emissions (as CH4) from P-60 or P-62 shall not exceed 2.0372 pounds per hour or 0.002515 Lb/MM Btu of natural gas fired. Compliance will be based on the initial source test. (Basis: BACT for POC when firing natural gas)	Y	
19177	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	
19177	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

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	19(h)	Particulate matter (PM10) mass emissions from P-60 or P-62 shall not exceed 4.65 pounds per hour 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 Demonstration of compliance will be based on source test results. (Basis: BACT for PM10)	Y	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	

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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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	

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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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	32	Pursuant to BAAQMD Regulation 2, Rule 6, section 404.3, the owner/operator of the Valero Power Plant shall submit an application to the BAAQMD for a significant revision to the Major Facility Review Permit prior to commencing operation. (Basis: Regulation 2-6-404.3)	Y	
19177	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	
19177	34	The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)	Y	
19177	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	
19177	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	
19177	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	

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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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	42	Deleted.	Y	
19177	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. (Basis: RACT, Offsets, Cumulative Increase)	Y	
19177	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. Deleted. (Basis: RACT, Offsets, Cumulative Increase)	Y	
19177	45	Deleted.	Y	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	47	The S-38 and S-39 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1030 and S-1031 power train. The applicant shall enter into the record log the date each boiler was shutdown. (Basis: offsets)	Y	
19177	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 boiler was shutdown. (Basis: offsets)	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	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	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	
SIP· Regulation 1	**General Provisions and Definitions (SIP Approved) (06/28/1999)**		
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	
6-310.3	Heat Transfer Operation	Y	
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 (01/05/1994)**		
9-10-110.3	Exemptions; Waste heat recovery boilers	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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 · Rule 11	**Inorganic Gaseous Pollutants, NOx and CO from Utility Electric Power Gen Boilers ()**		
9-11-114	Exemption, Heat Recovery Steam Generators	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(a)	NOx Standard	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 60.44b(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 60.46b(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(h)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	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	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.46b(h)(1)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(h)(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 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(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	
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(h)(4)	Excess Emissions Definition	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	
40 CFR 60.49b(o)	Records retained for 2 years	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
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 (09/30/1999)**		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	**NSPS 40 Part 60 Appendix F (02/11/1991)**		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
Application #2488/2695	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: Phase I (S-1030 and S-1031) NOx: 13.162 TPY 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 (Basis: NOx and POC)	Y	
Application #2488/2695	2	For SO2 emissions offsets, a curtailment group is established as follows: 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: SO2 offsets)	Y	
Application #2488/2695	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	Y	
Application #2488/2695	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	
Application	5	At the earliest feasible opportunity, but no later than 30 days after startup,	Y	

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#2488/2695		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

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
Application #2488/2695	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	
Application #2488/2695	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	
Application #2488/2695	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-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 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	
Application #2488/2695	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	Y	

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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

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177		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	
19177	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	Y	
19177	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 day PM10 224.08 pounds per calendar day SO2 516 pounds per calendar day	Y	
19177	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	
19177	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 S-1032 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	
19177	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	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	18(a)	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	
19177	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	
19177	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	
19177	18(d)	Precursor organic compound (POC) mass emissions (as CH4) from P-60 or P-62 shall not exceed 2.0372 pounds per hour or 0.002515 Lb/MM Btu of natural gas fired. Compliance will be based on the initial source test. (Basis: BACT for POC when firing natural gas)	Y	
19177	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	
19177	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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COGEN (Phase 1) Steam Generator S-1031 (SG-4901)
COGEN (Phase II) Steam Generator S-1033 (SG-4951)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	19(h)	Particulate matter (PM10) mass emissions from P-60 or P-62 shall not exceed 4.65 pounds per hour 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 Demonstration of compliance will be based on source test results. (Basis: BACT for PM10)	Y	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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,	Y	
19177	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	
19177	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	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	

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Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	
19177	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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, TRMP]	Y	
19177	32	Pursuant to BAAQMD Regulation 2, Rule 6, section 404.3, the owner/operator of the Valero Power Plant shall submit an application to the BAAQMD for a significant revision to the Major Facility Review Permit prior to commencing operation. (Basis: Regulation 2-6-404.3)	Y	
19177	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	
19177	34	The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)	Y	
19177	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	
19177	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	
19177	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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	
19177	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	
19177	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	
19177	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	
19177	42	Deleted.	Y	
19177	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.. (Basis: Offsets, RACT, Cumulative Increase)	Y	
19177	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. Deleted. (Basis: RACT, Offsets, Cumulative Increase)	Y	
19177	45	Deleted.	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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		**Authority to Construct S-1030, S-1031, S-1032, S-1033**		
19177	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 [Basis: Cumulative Increase, Offsets]	Y	
19177	47	The S-38 and S-39 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1030 and S-1031 power train. The applicant shall enter into the record log the date each boiler was shutdown. (Basis: offsets)	Y	
19177	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 boiler was shutdown. (Basis: offsets)	Y	

IV. Source Specific Applicable Requirements

Table IV - B1
Source-Specific Applicable Requirements
Coke Transport/Catalyst Railcar Unloading/ Lime Silo
S-8, S-10, S-12 (CYC-1901, FIL-2701, TK-2303)

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	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466 3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466 6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	
19466 7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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 6-310.3]	Y	
19466 9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8,	Y	

IV. Source Specific Applicable Requirements

S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]

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

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	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.011		**Permit to Operate S-11 (TK-2061) Activated Carbon Bin**		
9897	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	
9897	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	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than	Y	

IV. Source Specific Applicable Requirements

		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 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 6-310]	
19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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 6-310.3]	Y
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	Y

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	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	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.004		**Permit to Operate S-174, S-175, S-176 NBA Water Treating Project**		
639	1	If any visible emissions occur from the lime slurry tanks these emissions shall be abated. [Basis: BAAQMD 1-301]	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	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	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.004	**Permit to Operate S-176 NBA Water Treating Project**		
3253 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	
19466 3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466 6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	
19466 7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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	Y	

IV. Source Specific Applicable Requirements

		5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-310.3]	
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	Y

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.007		**Permit to Operate S-209, 210, 211 MTBE Process Unit**		
9296	B1	For the S-209 Methanol Unloading Station: The transport trucks shall travel on paved roads at all times inside of the Permit Holder Facility. [Basis: Cumulative Increase]	Y	
9296	B2	For the S-209 Methanol Unloading Station: All deliveries of methanol 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	
9296	B3	Deleted.		
9296	B4	For the S-209 Methanol Unloading Station: The total number of truck deliveries of methanol at Permit Holder shall not exceed 2920 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
9296	B5	The dispensed methanol from the transport trucks shall be delivered to the S-210 methanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]	Y	
9296	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	
9296	B7	Deleted.		
9296	B8	Deleted.		
9296	B9	The total number of truck deliveries of methanol shall be recorded weekly in a District approved log and totalized monthly. This record shall be retained for a period of at least 2 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	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	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.040		**Permit to Operate S-232 ESP Fines Improvements**		
12727	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	
12727	3	The operation of S-232 shall be abated properly by the Vacuum Filter (A-54). [Basis: Cumulative Increase]	Y	
12727	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	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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	Y	

IV. Source Specific Applicable Requirements

		request. [Basis: Regulation 6-310]	
19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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 6-310.3]	Y
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	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	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	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.040		**Permit to Operate S-233 ESP Fines Improvements**		
12727	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	
12727	4	The operation of S-233 shall be abated properly by the Bin Filter (A-55). [Basis: Cumulative Increase]	Y	
12727	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 Banked POC credits]	Y	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	

IV. Source Specific Applicable Requirements

19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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 6-310.3]	Y
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	Y

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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-114	Exemption, Miscellaneous Plants	Y	

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	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 (06/12/1996)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11883	1	S-201 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]	Y	
11883	2	Deleted.		

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	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 (06/12/1996)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11884	1	S-202 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]	Y	
11884	2	Deleted.		

IV. Source Specific Applicable Requirements

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

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	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate 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	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	
6-311	General Operations (Process Weight Rate Limitation)	Y	

IV. Source Specific Applicable Requirements

Table IV - C4
Source-Specific Applicable Requirements
Seal Oil Spargers
S-159 (SG-701/GT-701)

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	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
BAAQMD · Regulation 8 · Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466	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
Source-Specific Applicable Requirements
Seal Oil Spargers
S-160 (C-1031)

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	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
BAAQMD · Regulation 8 · Rule 2	**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301	Miscellaneous Operations	Y	

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466	2c	The Permit Holder shall conduct an annual District-approved source test on the S-160, Seal Oil Sparger, to demonstrate compliance with Regulation 8-2-301. 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 8-8-302.3]	Y	
19466	3	The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]	Y	
19466	6	The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]	Y	
19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11,	Y	

IV. Source Specific Applicable Requirements

		S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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 6-310.3]		
19466	9	The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]	Y	

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

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	
6-305		Visible Particles	Y	
6-310		Particulate Weight Limitation	Y	
6-311		General Operations (Process Weight Rate Limitation)	Y	
BAAQMD · Regulation 8 · Rule 2		**Organic Compounds, Miscellaneous Operations (06/15/1994)**		
8-2-301		Miscellaneous Operations	Y	

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466	13	The VOC emissions from S-167 and S-168 Seal Oil Spargers shall be vented in a closed system to the fuel gas header to be introduced into the refinery fuel gas stream. [Basis: Cumulative Increase]	Y	

Table IV - D1
Source-Specific Applicable Requirements
Cooling Tower
S-29 (CT-2401)

Applicable	Regulation Title or	Federally Enforceable	Future Effective

IV. Source Specific Applicable Requirements

Requirement	Description of	(Y/N)	Date
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	

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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-604	Determination of Applicability	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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 7	**Organic Compounds, Gasoline Dispensing Facilities (11/17/1999)**		
8-7-113	Tank Gauging and Inspection Exemption		
8-7-301.1	Requirement for CARB Phase I System	N	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	N	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.4	Deleted 11/17/1999	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers	Y	
8-7-301.6	Leak-Free, Vapor-Tight	N	
8-7-301.7	Poppetted Drybreaks	N	
8-7-301.8	No-Coaxial Phase I Systems on New and Modified Tanks	N	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	N	
8-7-301.10	System Vapor Recovery Rate	N	
8-7-301.11	CARB-Certified Spill Box	N	
8-7-301.12	Drain Valve Permanently Plugged	N	
8-7-302.1	Requirements for CARB Certified Phase II System	N	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	N	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	N	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	N	
8-7-302.6	Insertion Interlocks	N	
8-7-302.7	Built-In Vapor Check Valve	N	
8-7-302.8	Minimum Liquid Removal Rate	N	
8-7-302.9	Coaxial Hose	N	
8-7-302.10	Galvanized Piping or Flexible Tubing	N	
8-7-302.11	ORVR Compatible	N	
8-7-302.12	Liquid Retainment Limit	N	
8-7-302.13	Spitting Limit	N	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	N	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	N	
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	N	
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	N	

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	Federally Enforceable (Y/N)	Future Effective Date
8-7-313.2	Total Organic Compound Emissions From Spillage Shall Not Exceed 0.42 lb/1000 Gallons	N	
8-7-313.3	Total Organic Compound Emissions From Liquid Retain and Spitting Shall Not Exceed 0.42 lb/1000 Gallons	N	
8-7-315	Pressure Vacuum Valve Requirements, Underground Storage Tanks	N	
8-7-401	Equipment Installation and Modification		
8-7-404	Deleted 11/17/1999	N	
8-7-405	Deleted 11/17/1999	N	
8-7-406	Testing Requirements, New and Modified Installations	N	
8-7-501	Burden of Proof	N	
8-7-502	Right of Access	Y	
8-7-503.1	Gasoline Dispensed Records	N	
8-7-503.2	Dispensing Facility Maintenance Records	N	
8-7-503.3	Dispensing Records Retention	N	
8-7-601	Determination of Equipment in Compliance with Dynamic Backpressure Requirements and Vapor Tight		
8-7-602	Determination of Phase I Vapor Recovery Efficiency		
8-7-603	Determination of Applicability		
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements		
8-7-605	Determination of Equipment in Compliance with Air to Liquid Volume Ratio (A/L) Requirements		
8-7-606	Determination of Applicability		
SIP · Regulation 8 · Rule 7	**Organic Compounds, Gasoline Dispensing Facilities (06/01/1994)**		
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	
8-7-301.4	Pressure Vacuum Relief Valve Requirements	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	
8-7-302.1	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	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-304	Certification Requirements	Y	
8-7-307	Posting of Operating Instructions	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	Federally Enforceable (Y/N)	Future Effective Date
8-7-401	Equipment Installation and Modification	Y	
8-7-404	Certification of New Installation	Y	
8-7-405	Compliance Schedule, Loss of Exemption	Y	
8-7-501	Burden of Proof	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	Federally Enforceable (Y/N)	Future Effective Date
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	
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	

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	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.565(l)	Emission estimation procedures	Y	
40 CFR 63.567(j)	Recordkeeping and Reporting Requirements	Y	
40 CFR 63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.014		**LVB Banking Certificate**		
98	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	
98	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	
98	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	
98	4	On a quarterly basis, the Permit Holder shall provide verification of each controlled transfer. [Basis: Reporting]	Y	
98	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
98	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	
98	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	
98	8	The pressure developed in the vessel tanks during lightering shall be continuously recorded while the vessel is in District waters. [Basis Banked POC credits]	Y	
98	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	
98	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	Y	

IV. Source Specific Applicable Requirements

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]

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.014		**LVB Banking Certificate**		
98	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	
98	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	
98	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 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]	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.018		**Permit to Operate S-129 (A-29) Marine Gasoline Loading Dock**		
1709	1	The Permit Holder shall limit the total non-methane hydrocarbon emissions due to	Y	

IV. Source Specific Applicable Requirements

gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.018		**Permit to Operate S-129 (A-29) Marine Gasoline Loading Dock**		
1709	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 — CONTROLLED EMISSION FACTOR LB VOC/1000 GAL Ship 1.80 0.22 Barge 3.40 0.30	Y	
1709	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	
1709	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
1709	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
1709	6	The Permit Holder shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]	Y	
1709	7	The Permit Holder shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: Cumulative Increase]		Y
1709	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	
1709	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	
1709	10	If the testing in condition 9 demonstrates a leakage rate greater than 5% of the total volume, the emissions for any leak exceeding 5% of the total volume shall be calculated using worst case assumptions, highest vapor pressure and saturated vapor space. The calculated emissions shall then be added to the total used to determine compliance with condition 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.018		**Permit to Operate S-129 (A-29) Marine Gasoline Loading Dock**		
1709	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	
1709	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. 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]		Y
1709	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 - G1
Source-Specific Applicable Requirements
Solvent Cleaning Operations
S-177 (NO TAG)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 16	**Organic Compounds, Solvent Cleaning Standards (09/16/1998)**		
8-16-118	Limited Exemption, Compounds with Low Volatility	y	
8-16-118.2	Cold Cleaners	Y	
8-16-122	Limited Exemption, Permitted Cold Cleaners	N	
8-16-303	Cold Cleaner Requirement	y	
8-16-303.1	General Operating Requirements	y	
8-16-303.1.1	Operate and Maintain in Proper Working Order	Y	
8-16-303.1.2	Leak Repair Requirements	Y	
8-16-303.1.3	Solvent Storage or Disposal - Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.4.a	Covered Containers for Waste Solvent Awaiting Pick-Up	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices Shall not be Removed	Y	
8-16-303.2	Cold Cleaner Operating Requirements	y	
8-16-303.2.1	Solvent Shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Starting Operating Requirements	Y	
8-16-501	Solvent Records	N	
8-16-501.2	Facility-wide annual Solvent Usage Records	N	
8-16-501.3	Annual Records of Type and Amount of Solvent Used for Wipe Cleaning	N	
8-16-501.5	Records Retained for Previous 24-month Period	N	
8-16-501.6	Records Such as Manifests Shall be Retained	N	
SIP Regulation 8 · Rule 16	**Organic Compounds, Solvent Cleaning Standards (06/15/1994)**		
8-16-303.5	Cleaning Solution Used Shall Not Exceed 50 g/l (0.42 lb/gal). Cold cleaners meeting this limit are not required to comply with 8-16-303.4	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide annual Solvent Usage Records	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 8		**(06/15/1994) Organic Compounds, California Wastewater (Oil-Water) Separators**		
8-8-114		Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501		API Separator or Air Flotation Bypassed Wastewater Records	Y	
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	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	
10574	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	
10574	6	Deleted.		
10574	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. Deleted. [Basis: BACT, Offsets, Cumulative Increase, Toxics]	Y	
10574	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	
10574	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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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-1025, 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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 8	**(06/15/1994) Organic Compounds, California Wastewater (Oil-Water) Separators**		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	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	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 (01/07/1993)**		
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	

IV. Source Specific Applicable Requirements

Table IV - H2.2
Source-Specific Applicable Requirements
Biotreaters
S-214, S-215 (TK-2065, TK-2064)

Applicable Requirement	Regulation Title or Description of	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 (01/07/1993)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.002		**Permit to Operate S-214 BIOX Aerator & S-215 BIOX Clarifier**		
7015	1	The operation of S-214 (BIOX Aerator) and S-215 (BIOX Clarifier) shall not produce odors in such quantities as to cause a public nuisance under Regulation 1-301. [Basis: Public Nuisance]	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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 8	**(06/15/1994) Organic Compounds, California Wastewater (Oil-Water) Separators**		
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	

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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
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	
8-8-303	Gauging and Sampling Devices	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 (01/07/1993)**		
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	
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)(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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.010		**Permit to Operate S-188 and S-189**		
4882	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	Y	

IV. Source Specific Applicable Requirements

			existing flare (S-18) at all times. [Basis: Cumulative Increase]	
4882		2	S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [Basis: Cumulative Increase]	Y
19466	2a		The Permit Holder shall conduct an annual District-approved source test on the S-188 CPS Units to demonstrate that the combined collection/destruction efficiency of A-13 and A-26 is no less than 95%, by weight, for VOC. 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 8-8-302.3]	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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 8	**Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)**		
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	
8-8-303	Gauging and Sampling Devices	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 (01/07/1993)**		
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	
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	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	Federally Enforceable (Y/N)	Future Effective Date
	Performance Demonstration--Performance tests		
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 (06/12/1996)**		
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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
		For S-194, S-195, S-197, and S-198:		
13319	1	The emissions of nitrogen oxides (NOx) 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	
13319	2	The emissions of carbon monoxide (CO) 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	
13319	3	The VOC destruction efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
13319	4	The minimum oxidation temperature of A-56 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
13319	5	The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis: NSPS]	Y	
13319	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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
13319	7	The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403) For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year. e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)	Y	
13319	8	No later than 30 days after startup, the Permit Holder shall conduct a BAAQMD-approved source test to determine compliance with the NOx, CO and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Permit Holder shall install all necessary source test ports, subject to the approval of the Manager of the Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the BAAQMD staff no later than 30 days after the source test. (Basis: NSPS)	Y	
13319	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	
13319	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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
13319	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	
13319	12	Deleted.		
13319	13	Deleted.		
13319	14	These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
13319	15	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	
13319	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	
13319	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-56 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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
13319	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	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.	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 (01/07/1993)**		
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	
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)(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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.010		**Permit to Operate S-188 and S-189**		
4882	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	

IV. Source Specific Applicable Requirements

4882		2	S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [basis: Cumulative Increase]	Y
19466	2b		The Permit Holder shall conduct an annual District-approved source test on the S-189 ISF Units to demonstrate that the combined collection/destruction efficiency of A-13 and A-26 is no less than 70%, by weight, for VOC. 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]	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	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.	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 (01/07/1993)**		
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	
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	

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	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)(1)	Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
		FOR S-194, S-195, S-197, and S-198:		
13319	1	The emissions of nitrogen oxides (NOx) 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	
13319	2	The emissions of carbon monoxide (CO) 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	
13319	3	The VOC construction efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
13319	4	The minimum outlet temperature of A-56 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
13319	5	The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis: NSPS]	Y	
13319	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	

IV. Source Specific Applicable Requirements

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
13319	7	The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year. e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)	Y	
13319	8	No later than 30 days after startup, the Permit Holder shall conduct a BAAQMD-approved source test to determine compliance with the NOx, CO and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Permit Holder shall install all necessary source test ports, subject to the approval of the Manager of the Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the BAAQMD staff no later than 30 days after the source test. (Basis: NSPS)	Y	
13319	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	
13319	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 - H5.2
Source-Specific Applicable Requirements
ISF Units
S-197, S-198 (2007, 2057)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
13319	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	
13319	12	Deleted.		
13319	13	Deleted.		
13319	14	These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
13319	15	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	
13319	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. [cumulative increase]	Y	
13319	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 24 months from the date on which a record is made. NMHC emissions from A-56 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. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout. [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	Federally Enforceable (Y/N)	Future Effective Date
Applicable Condition		**Regulation Title or Description of**	**Federally Enforceable (Y/N)**	**Future Effective Date**
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
13319	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
Wastewater Sludge Thickener
S-192 (TK-2052)

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 (12/15/1999)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
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	

IV. Source Specific Applicable Requirements

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	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
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	

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)			X		
S-189 OMS ISF	X			X (3)			X		
S-201 WWEIGHT Vacuum Truck Load.	X			X (3)			X		
S-202 WWEIGHT Vacuum Truck Load.	X			X (3)			X		
S-209 MeOH Truck Unload.	X								
S-211 MTBE Plant	X	COND 9296 A.1	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	COND 815 1, 2	X (1)		X (1)				X
S-1007 Alkylation Unit	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	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	COND 15512 1							
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		X		X				
S-1014 Cat Light Ends	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-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**

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-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
S-1030 Combustion Turbine Generator (CoGen Phase I)	X		X		X				
S-1031 Heat Recovery Steam Generator (CoGen Phase I)	X								
S-1032 Combustion Turbine Generator (CoGen Phase II)	X		X		X				
S-1033 Heat Recovery Steam Generator (CoGen Phase II)	X								
Fluid Coker	X								X
Vapor Recovery Compressors A-46/47 (C-1704 A/B) at S-227	X		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
Vapor Recovery Compressors A-40/41 (C-1702 A/B) at S-65, S-69, S-70, S-71	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								
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	COND 17835 1, 2, 3							
Truck Loading/Unloading Rack	X								
OM-12 Area – Light Ends	X								
OM-13 Areas:									
Intermediate Feed Storage	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
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
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

IV. Source Specific Applicable Requirements

(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) Permit conditions are listed for fugitive emission sources that do not have other applicable requirements included in Table IV.

IV. Source Specific Applicable Requirements

Table IV – 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 (01/07/1998)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	N	
8-18-115	Limited Exemption, Storage Tanks	N	
8-18-116	Limited Exemption, Vacuum Service	N	
8-18-301	General	N	
8-18-302	Valves	N	
8-18-303	Pumps and Compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure Relief Devices	N	
8-18-306	Non-repairable Equipment	N	
8-18-306.1	Non-repairable Equipment	N	
8-18-306.2	Non-repairable Equipment	N	
8-18-307	Liquid Leak	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	
8-18-403	Visual Inspection Schedule	N	
8-18-404	Alternative Inspection Schedule	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
8-18-601	Analysis of Samples	N	
8-18-602	Inspection Procedure	N	
8-18-603	Determination of Control Efficiency	N	
BAAQMD Regulation 8 · Rule 28	**Organic Compounds, Episodic Releases from Pressure Relief Devices (03/18/1998)**		
8-28-301	Standards: Pressure Relief Valve	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
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	

IV. Source Specific Applicable Requirements

Table IV –
Source-specific Applicable
Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
SIP · Regulation 8 · Rule 28	**Organic Compounds, Episodic Releases from Pressure Relief Devices (06/15/1994)**		
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	
BAAQMD · Regulation 11 Rule 7·	**Hazardous Pollutants, Benzene (03/06/1985)**		
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	
11-7-310	Delay of Repairs	N	
11-7-310.1	Delay of Repairs	Y	
11-7-313	Alternative Compliance for Valves-Skip Period Detection and Repair	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**		
40 CFR 60.480	Applicability and Designation of Affected Facility	Y	
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	Standards: Sampling connection systems	Y	

IV. Source Specific Applicable Requirements

Table IV –
Source-specific Applicable
Requirements Fugitive Components

Applicable Requirement	**Regulation Title or Description of**	**Federally Enforceable (Y/N)**	Future Effective Date
60.482-5			
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(d)	Reporting	Y	
40 CFR 60.487(f)	Reporting	Y	
NSPS Title 40 Part 60 Subpart GGG	**NSPS GGG for Equipment Leaks of VOC in Petroleum Refineries (05/30/1984)**		

IV. Source Specific Applicable Requirements

Table IV –
Source-specific Applicable
Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.590	Applicability and Designation of Affected Facility	Y	
40 CFR 60.592	Standards		
40 CFR 60.593	Exceptions	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (01/07/1993)**		
40 CFR 61.345 (a)(1)(i)	Standards: Containers-no detectable emissions		
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 (06/12/1996)**		
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 source comply with 40 CFR 60 Subpart VV and 63.648(b). New source comply with 40 CFR 63 Subpart	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 - J1
Source-Specific Applicable Requirements
External Floating Roof Tank; with Permit Conditions
S-57 (TK-1701)

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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J1
Source-Specific Applicable Requirements
External Floating Roof Tank; with Permit Conditions
S-57 (TK-1701)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Slotted sampling or gauging well requirements projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging well requirements--external floating roof requirements	Y	
8-5-320.5.3	Tank Fitting Requirements; 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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	

IV. Source Specific Applicable Requirements

Table IV - J1
Source-Specific Applicable Requirements
External Floating Roof Tank; with Permit Conditions
S-57 (TK-1701)

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 (01/27/1995)**		
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	
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	

IV. Source Specific Applicable Requirements

Table IV - J1
Source-Specific Applicable Requirements
External Floating Roof Tank; with Permit Conditions
S-57 (TK-1701)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
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 (06/12/1996)**		
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	

IV. Source Specific Applicable Requirements

Table IV - J1
Source-Specific Applicable Requirements
External Floating Roof Tank; with Permit Conditions
S-57 (TK-1701)

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 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 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	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

IV. Source Specific Applicable Requirements

Table IV - J1
Source-Specific Applicable Requirements
External Floating Roof Tank; with Permit Conditions
S-57 (TK-1701)

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.068		**Permit to Operate TK-1701 Steam Coils**		
8564	1	Tank 1701 (S-57) shall not be heated while storing "light" crude oil. [Basis: Cumulative Increase]	Y	
8564	2	The maximum vapor pressure of material stored in TK1701 shall not exceed 3.5 psi. [Basis: Cumulative Increase]	Y	
8564	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 in accordance with the NESHAPS: [Basis: Cumulative Increase; Offsets] 97 valves, 294 flanges, 3	Y	

IV. Source Specific Applicable Requirements

Table IV - J2
Source-Specific Applicable Requirements
External Floating Roof Tank
S-58 (TK-1702)

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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J2
Source-Specific Applicable Requirements
External Floating Roof Tank
S-58 (TK-1702)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Slotted sampling or gauging well requirements projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging well requirements--external floating roof requirements	Y	
8-5-320.5.3	Tank Fitting Requirements; 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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	

IV. Source Specific Applicable Requirements

Table IV - J2
Source-Specific Applicable Requirements
External Floating Roof Tank
S-58 (TK-1702)

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 (01/27/1995)**		
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	
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	

IV. Source Specific Applicable Requirements

Table IV - J2
Source-Specific Applicable Requirements
External Floating Roof Tank
S-58 (TK-1702)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
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 (06/12/1996)**		
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	

IV. Source Specific Applicable Requirements

Table IV - J2
Source-Specific Applicable Requirements
External Floating Roof Tank
S-58 (TK-1702)

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 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 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	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

IV. Source Specific Applicable Requirements

Table IV - J2
Source-Specific Applicable Requirements
External Floating Roof Tank
S-58 (TK-1702)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Slotted sampling or gauging well requirements projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging well requirements--external floating roof requirements	Y	
8-5-320.5.3	Tank Fitting Requirements; 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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (01/27/1995)**		
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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Compliance--External FR and seal gap determination methods		
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal gap determination methods		
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal gap determination methods		
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal gap calculation method		
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal gap calculation method		
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal requirements		
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal requirements metallic shoe		
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal, no holes		
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal requirements		
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal location		
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal, no holes		
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR unsafe to perform seal measurements		
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR unsafe to perform seal measurements		
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR unsafe to perform seal measurements		
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
	External FR Repairs		
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
	External FR seal gap measurement 30 day notification		
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seals visual inspection each time emptied		
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal repairs [does not apply to gaskets		
	slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR		
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal inspections 30 day notification		
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal inspections -Notification for unplanned		
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-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, 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 (06/12/1996)**		
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 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	

IV. Source Specific Applicable Requirements

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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; Welded tanks	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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.3	Primary Seal Inspection; Once every 5 years for tanks not subject to 8-5-311.2 or 8-5-322.5	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.3	Secondary Seal and Fitting Inspection; Annually for all tanks not 8-5-322.5 or 8-5-311.2	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (01/27/1995)**		
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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Compliance--External FR and seal gap determination methods		
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal gap determination methods		
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal gap determination methods		
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal gap calculation method		
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal gap calculation method		
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal requirements		
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal requirements metallic shoe		
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR primary seal, no holes		
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal requirements		
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal location		
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR secondary seal, no holes		
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR unsafe to perform seal measurements		
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR unsafe to perform seal measurements		
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR unsafe to perform seal measurements		
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
	External FR Repairs		
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
	External FR seal gap measurement 30 day notification		
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seals visual inspection each time emptied		
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal repairs [does not apply to gaskets		
	slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR		
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal inspections 30 day notification		
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine	Y	
	Compliance--External FR and seal inspections -Notification for unplanned		
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 - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

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 (06/12/1996)**		
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 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	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (01/27/1995)**		
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	
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	Y	

IV. Source Specific Applicable Requirements

Compliance--External FR and seal gap determination methods

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
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	
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	

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IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
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 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	Y	

IV. Source Specific Applicable Requirements

Table IV - J5
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
	with external floating roofs		
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 - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-72, S-83, S-84, S-92 (TK-1720, 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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-72, S-83, S-84, S-92 (TK-1720, 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 (01/27/1995)**		
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	
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	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-72, S-83, S-84, S-92 (TK-1720, 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)(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	
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 (06/12/1996)**		
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	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 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	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks
S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 - 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	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
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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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; Welded tanks	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.3	Primary Seal Inspection; Once every 5 years for tanks not subject to 8-5-311.2 or 8-5-322.5	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.3	Secondary Seal and Fitting Inspection; Annually for all tanks not 8-5-322.5 or 8-5-311.2	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	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 G	**SOCMI HON G (01/27/1995)**		
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	
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	

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)(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	
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 (06/12/1996)**		
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	

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 63.646(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 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	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	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 63.654(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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.042		**Permit to Operate S-97 (TK-1776) Storage Tank of JP-4 and Mogas**		
10633	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	

IV. Source Specific Applicable Requirements

Table IV - J8
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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J8
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
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Slotted sampling or gauging well requirements projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging well requirements--external floating roof requirements	Y	
8-5-320.5.3	Tank Fitting Requirements; 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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	

IV. Source Specific Applicable Requirements

Table IV - J8
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
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NSPS Title 40 Part 60 Subpart K	**NSPS Subpart K for Petroleum Liquids Storage Vessels Constructed between `73-`78 (04/04/1980)**		
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 (01/27/1995)**		
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	

IV. Source Specific Applicable Requirements

Table IV - J8
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)(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	
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	

IV. Source Specific Applicable Requirements

Table IV - J8
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)(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 (06/12/1996)**		
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 subject to this	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)(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	

IV. Source Specific Applicable Requirements

Table IV - J8
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)(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	
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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	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
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	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
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 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	
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	

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 60.113b(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	
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(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	

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
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 (06/12/1996)**		
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	
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	

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

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.006		**Permit to Operate S-207 (TK-1740) MTBE/Mogas Storage Tank**		
10797	1	The total release of emissions from this S-207 project for delivery and storage of MTBE, which includes the cargo ships and tugs in District waters, shall not exceed in any rolling 365 consecutive day period the following limit: [Basis: Cumulative Increase] Pollutant Tons NOx 36.7 CO 3.7 POC 8.1 SO2 9.5 PM10 1.6	Y	
10797	2	The total release of POC emissions from this S-207 MTBE project shall not exceed 140 pounds in any rolling 24 consecutive hour period. This POC total is defined as the sum of all project-related emissions from: (a) the storage tank; (b) valves, pumps and flanges (fugitive emissions); and (c) the cargo ships and tugs in District waters, assist tugs, tugs during maneuvering and (d) transferring of the MTBE from the cargo carrier to the S-207 Receipt Tank. [Basis: Cumulative Increase]	Y	
10797	3	Deleted.		
10797	4	The S-207 External Roof Storage Tank shall store MTBE and/or mogas only. [Basis: Cumulative Increase, BACT, Offsets, Toxics]	Y	
10797	5	The total throughput of MTBE at S-207 shall not exceed 5,800,000 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
10797	6	The total throughput of mogas at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
10797	7	The total daily throughput of MTBE and mogas withdrawn from the S-207 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least two years from date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]	Y	
10797	8	The owner/operator shall maintain daily records (calendar day), in a District approved log, for: (1) the total number of MTBE deliveries by ship and barge (2) ship and tug boat fuel usage (actual or estimated if not logged in) in District waters attributable to the S-207 project only, (3) type of fuel, (4) hours of ship operation in District waters attributable to the S-207 project only, (5) size capacity of ship and barge in DWEIGHT. In addition, the daily throughput of MTBE transferred at the refinery dock from the cargo ship or barge to S-207 shall be recorded in a District approved log. All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to the District on request. If a cargo carrier for this S-207 project calls on multiple ports, such as in Martinez, Permit Holder will be charged for all round trip emissions from the port to the existing refinery dock in Benicia and back to port. For the purposes of record keeping, Permit Holder need to maintain records only for the portion of the project chargeable to their operation. [Basis: Cumulative Increase]	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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.006		**Permit to Operate S-207 (TK-1740) MTBE/Mogas Storage Tank**		
10797	9	On the day of MTBE delivery at the refinery and each day of MTBE transfer from the cargo carrier to S-207, the owner/operator shall determine, using a District approved calculation procedure, the total POC emissions from this project to verify compliance with Conditions Number 2. These daily totals shall be entered into the log and shall be summarized monthly. A Quarterly summary report shall be submitted to the District by the 10th day of the month following the close of the quarter. All records shall be retained for at least two years from date of entry. This log 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.2	Vapor Loss Control Device Requirements; Internal floating roof	Y	
8-5-311.2.1	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	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
8-5-320.2.3	Tank Fitting Requirements; Roof openings requirements--inaccessible openings on internal floating roof tanks	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.2	Primary Seal Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart G	**SOCMI HON G (01/27/1995)**		
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	

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 63.119(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	
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	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	

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 63.120(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 (06/12/1996)**		
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 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	
40 CFR 63.654(g)(2)(i)(B)	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 without Secondary Seal; MACT Exempt
S-87 (TK-1759)

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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.2	Vapor Loss Control Device Requirements; Internal floating roof	Y	
8-5-311.2.1	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.2.3	Tank Fitting Requirements; Roof openings requirements--inaccessible openings on internal floating roof tanks	Y	

IV. Source Specific Applicable Requirements

Table IV - J11
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal; MACT Exempt
S-87 (TK-1759)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid seal requirements	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.2	Primary Seal Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

IV. Source Specific Applicable Requirements

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals; MACT Exempt
S-88, S-89, S-90, S-91 (TK-1760, TK-1761, 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.2	Vapor Loss Control Device Requirements; Internal floating roof	Y	
8-5-311.2.1	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals; MACT Exempt
S-88, S-89, S-90, S-91 (TK-1760, TK-1761, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.2.3	Tank Fitting Requirements; Roof openings requirements--inaccessible openings on internal floating roof tanks	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Slotted sampling or gauging well requirements projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging well requirements--external floating roof requirements	Y	
8-5-320.5.3	Tank Fitting Requirements; 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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-330	Viewport Installation	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.2	Primary Seal Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.2	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.2	Certification; Secondary seals--Once every 10 year requirements	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	

IV. Source Specific Applicable Requirements

Table IV - J12
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Secondary Seals; MACT Exempt
S-88, S-89, S-90, S-91 (TK-1760, TK-1761, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.2	Vapor Loss Control Device Requirements; Internal floating roof	Y	
8-5-311.2.3	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal and a secondary seal per 8-5-321 and 8-5-322 if seals installed after 2/1/1993	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below 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
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.2.3	Tank Fitting Requirements; Roof openings requirements--inaccessible openings on internal floating roof tanks	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-330	Viewport Installation	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.2	Primary Seal Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.2	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.2	Certification; Secondary seals--Once every 10 year requirements	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	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
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 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)(A)	Standard for Volatile Organic Compounds (VOC); Internal floating roof foam or liquid filled seals option.	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)(ii)(C)	Standard for Volatile Organic Compounds (VOC); Internal floating roof mechanical shoe seals 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	
40 CFR 60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, 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)(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 (06/12/1996)**		
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	

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(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.007		**Permit to Operate 210MTBE Process Unit**		
9296	C1	For the S-210 Methanol Tank: The total throughput of product from S-210 shall not exceed 575,000 barrels of methanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y	
9296	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	
9296	C3	Deleted.		
9296	C4	Deleted.		
9296	C5	The S-210 internal floating roof tank shall only store methanol 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	
9296	C6	The total monthly throughput of methanol 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 2 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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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, S-70, S-71 (TK-1713, TK-1717, TK-1718, TK-1719)

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 (12/15/1999)**		
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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-305	Storage Tanks Storing Organic Liquids with a True Vapor Pressure Greater than 11 psia	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	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 - 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
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-305	Storage Tanks Storing Organic Liquids with a True Vapor Pressure Greater than 11 psia	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	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 - 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
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.006		**Permit to Operate S-133 (TK-2712) Spent Acid Storage Tank**		
7559	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]	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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-305	Storage Tanks Storing Organic Liquids with a True Vapor Pressure Greater than 11 psia	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	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 - 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
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 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	
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 (06/12/1996)**		
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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	2	Deleted.		
10574	3	Deleted.		
10574	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	
10574	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	
10574	6	Deleted.		
10574	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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. Deleted. 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	
10574	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	
10574	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	
10574	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-1025, 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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		**Permit to Operate Clean Fuels Project**		
10574	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	
10574	43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: ~~BARCT~~ BAAQMD 8-5]	Y	
10574	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]	Y	
10574	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]	Y	

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-102, 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-1792, 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 (12/15/1999)**		
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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	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 (12/15/1999)**		
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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-303	Above Ground Storage Tanks Larger than 37.5 cu m and Smaller than 75 cu m	Y	
8-5-501	Records	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
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.020		**Permit to Operate S-108 (TK-1801) Cone Roof Tank**		
76003	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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-303	Above Ground Storage Tanks Larger than 37.5 cu m and Smaller than 75 cu m	Y	
8-5-501	Records	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 - 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
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	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 - 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-171, S-180, S-234, S-235 (TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794, NO TAG, NO TAG, NO TAG, NO TAG)

Applicable	Regulation Title or	Federally Enforceable	Future Effective
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-501	Records	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 - 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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-501	Records	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 - J24
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-143 (TK-1034)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.041		**Permit to Operate S-143 (TK-1034) Corrosion Inhibitor Tank**		
13045	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	
13045	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 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J25
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-170 (TK-2317)

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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-501	Records	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 - J25
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-170 (TK-2317)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.032		**Permit to Operate S-170 (TK-2317) Polymer Storage Tank**		
896	2	Emissions of NMHC from S-170 (5000 gallon polymer storage tank) shall not exceed 1 lb/day averaged over 30-day period. [Basis: Cumulative Increase]	Y	
896	3	Permit Holder shall maintain records of all tank S-170 loadings including date, type and amount of material loaded. These records shall be maintained for at least two years and be available to the District upon request. [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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-501	Records	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 - J26
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-239 (TK-1918)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.067		**Permit to Operate for S-239**		
18422	1	Total liquid throughput at source S-239 shall not exceed 102,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)	Y	
18422	2	S-239 shall be equipped with a submerged fill pipe. (Basis: Regulation 8-5-301)	Y	
18422	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 24 months from the date that the record was made. (Basis: Cumulative Increase)	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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.1	Storage Tanks Smaller than 150 cu m with submerged fill pipe	Y	
8-5-501	Records	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 - J27
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.016		**Permit to Operate S-158 (TK-2902) Perchloroethylene Storage Tank**		
9584	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	
9584	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 24 months from the date on which a record is made. [Basis: cumulative increase]	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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.3	Storage Tanks Smaller than 150 cu m with vapor loss control device in compliance with 8-5-311	Y	
8-5-303	Above Ground Storage Tanks Larger than 37.5 cu m and Smaller than 75 cu m	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-501	Records	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-604	Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J29
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks < 10 Kgals
S-121, S-142, S-144, S-185 (D-807, TK-103, TK-5013, 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 (12/15/1999)**		
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	

IV. Source Specific Applicable Requirements

Table IV - J30
Source-Specific Applicable Requirements
Exempt Fixed Roof Tank with NSPS Subpart Kb 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 (12/15/1999)**		
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	
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (08/11/1989)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
40 CFR 60.110b(c)	Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m	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	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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 (12/15/1999)**		
8-5-117	Exemption, Low Vapor Pressure	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	
6-305	Visible Particles	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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	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
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	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
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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	
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 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	
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	

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(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 (01/07/1993)**		
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 (06/12/1996)**		
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

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-67, S-81, S-104 (TK-1715, 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.1	Vapor Loss Control Device Requirements; External floating roof with primary and secondary seals	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-67, S-81, S-104 (TK-1715, TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid 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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.1	Primary Seal Inspection	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.1	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-322.5 tanks	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.1	Certification; Secondary seals; Annual requirements (8-5-311.1)	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-67, S-81, S-104 (TK-1715, 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	
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	

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-67, S-81, S-104 (TK-1715, TK-1753, TK-1795)

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

IV. Source Specific Applicable Requirements

Table IV - J33
Source-Specific Applicable Requirements
External Floating Roof Tanks - Benzene Wastewater
S-67, S-81, S-104 (TK-1715, TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 (01/07/1993)**		
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 (06/12/1996)**		
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

Table IV - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-105 (TK-1791, 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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, 7 day prior written notification for secondary seal replacement	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.2	Vapor Loss Control Device Requirements; Internal floating roof	Y	
8-5-311.2.1	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal	Y	
8-5-311.2.3	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal and a secondary seal per 8-5-321 and 8-5-322 if seals installed after 2/1/1993	Y	
8-5-320	Tank Fitting Requirements	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-105 (TK-1791, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.1	Tank Fitting Requirements; Secondary seal requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	
8-5-320.2.3	Tank Fitting Requirements; Roof openings requirements--inaccessible openings on internal floating roof tanks	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-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	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-330	Viewport Installation	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.2	Primary Seal Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-402	Secondary Seal and Fitting Inspection	Y	
8-5-402.2	Secondary Seal and Fitting Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	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-105 (TK-1791, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-404.2	Certification; Secondary seals	Y	
8-5-404.2.2	Certification; Secondary seals--Once every 10 year requirements	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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)(A)	Standard for Volatile Organic Compounds (VOC); Internal floating roof foam or liquid filled seals option.	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)(ii)(C)	Standard for Volatile Organic Compounds (VOC); Internal floating roof mechanical shoe seals 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 - J34
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-105 (TK-1791, TK-1796)

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(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 (01/07/1993)**		
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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 (06/12/1996)**		
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

Table IV - J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater
S-103 (TK-1793)

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 (12/15/1999)**		
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, 3 day prior written notice	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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.2	Vapor Loss Control Device Requirements; Internal floating roof	Y	
8-5-311.2.1	Vapor Loss Control Device Requirements; Internal floating roof with liquid mounted primary seal	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank Fitting Requirements; Roof openings requirements	Y	
8-5-320.2.1	Tank Fitting Requirements; Roof openings requirements--projection below liquid surface	Y	
8-5-320.2.2	Tank Fitting Requirements; Roof openings requirements--gasketed covers, seals, lids	Y	

IV. Source Specific Applicable Requirements

Table IV - J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater
S-103 (TK-1793)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.3	Tank Fitting Requirements; Roof openings requirements--inaccessible openings on internal floating roof tanks	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; Liquid mounted or per 8-5-311.2.2	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-401	Primary Seal Inspection	Y	
8-5-401.2	Primary Seal Inspection; Once every 10 years for 8-5-311.2 tanks	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	Certification; Primary seals	Y	
8-5-405	Information Required	Y	
8-5-405.1	Information Required; Date of inspection	Y	
8-5-405.2	Information Required; Gap measurements	Y	
8-5-405.3	Information Required; Data showing requirements being met	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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	

IV. Source Specific Applicable Requirements

Table IV - J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater
S-103 (TK-1793)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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)(A)	Standard for Volatile Organic Compounds (VOC); Internal floating roof foam or liquid filled seals option.	Y	
40 CFR 60.112b(a)(1)(ii)(C)	Standard for Volatile Organic Compounds (VOC); Internal floating roof mechanical shoe seals 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	
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 60.116b(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	

IV. Source Specific Applicable Requirements

Table IV - J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater
S-103 (TK-1793)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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 (01/07/1993)**		
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 (06/12/1996)**		
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

Table IV - J36
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater
S-131 (D-2069)

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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.3	Storage Tanks Smaller than 150 cu m with vapor loss control device in compliance with 8-5-311	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.1	Storage Tanks Larger than 75 cu m, but smaller than 150 cu m	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	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 (D-2069)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (01/07/1993)**		
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)(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	
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 (06/12/1996)**		

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 (D-2069)

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 63.640(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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11888	1	The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: ~~BARCT~~ BAAQMD 9-10)	Y	
11888	2	The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3%. oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis)	Y	
11888	3	The VOC destruction efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
11888	4	The minimum oxidation temperature of A-56 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
11888	5	The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis: Monitoring]	Y	
11888	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	

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 (D-2069)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11888	7	The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit (Basis: Regulation 2-1-403) For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year. e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)	Y	
11888	8	Deleted.		
11888	9	This source shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal Oxidizer in series at all times when the source is in service except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
11888	10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: RACT]	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 (D-2069)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11888	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 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	
11888	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-56 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	
11888	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	
11888	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	
11888	15	Deleted.		
11888	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	

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 Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	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
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (01/07/1993)**		
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)(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	
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 (06/12/1996)**		
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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11879	1	The emissions of nitrogen oxides (NOx) 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	
11879	2	The emissions of carbon monoxide (CO) 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	
11879	3	The VOC destruction efficiency of the A-56 Thermal oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
11879	4	The minimum oxidation temperature of A-56 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
11879	5	The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. (Basis: Temperature Monitoring)	Y	
11879	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11879	7	The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month . and total number for the current calendar year. e. All strip charts or other temperature records.(Basis: Regulation 2-1-403)	Y	
11879	8	Deleted.		
11879	9	This source shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal oxidizer in series at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
11879	10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11879	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	
11879	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-56 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	
11879	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	
11879	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	
11879	15	Deleted.		
11879	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	

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
BAAQMD · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.2	Storage Tanks Larger than or equal to 150 cu m with TVP > 25.8 mmHg must meet BAAQMD 8-5-311	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	Y	
8-5-604	Determination of Applicability	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
NSPS Title 40 Part 60 Subpart Kb	**NSPS Subpart Kb for Tanks (08/11/1989)**		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 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	
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	

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
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 (01/07/1993)**		
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)(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 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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
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 - 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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11880	1	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	
11880	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	
11880	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 -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. [Basis: Cumulative Increase]	Y	
11880	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 e) Total volume of gas recorded between carbon canister changeout. [Basis: Cumulative Increase]	Y	
11880	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	
11880	6	Deleted.		
11880	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 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.3	Storage Tanks Smaller than 150 cu m with vapor loss control device in compliance with 8-5-311	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-501	Records	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	Y	
8-5-604	Determination of Applicability	Y	
NESHAPS Title 40 Part 61 Subpart FF	**NESHAPS, Benzene Waste Operations (01/07/1993)**		
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	

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 61.343(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)(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	
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 (06/12/1996)**		
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	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
	periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11882	1	S-199 and S-200: The emissions of nitrogen oxides (NOx) 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	
11882	2	The emissions of carbon monoxide (CO) 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	
11882	3	The VOC destruction efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
11882	4	The minimum oxidation temperature of A-56 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
11882	5	The A-56 Thermal oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis: NSPS]	Y	
11882	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	

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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11882	7	The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month . and total number for the current calendar year. e. All strip charts or other temperature records.(Basis: Regulation 2-1-403)	Y	
11882	8	Deleted.		
11882	9	These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) in series or the A-56 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
11882	10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
11882	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 recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
11882	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-56 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	
11882	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	
11882	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	
11882	15	Deleted.		
11882	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	

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 · Regulation 8 · Rule 5	**Organic Compounds, Storage of Organic Liquids (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.3	Storage Tanks Smaller than 150 cu m with vapor loss control device in compliance with 8-5-311	Y	
8-5-304	Storage Tanks Larger than 75 cu m	Y	
8-5-304.1	Storage Tanks Larger than 75 cu m, but smaller than 150 cu m	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-328	Tank Cleaning Requirements	Y	
8-5-328.2	Tank Cleaning Requirements; Approved Emission Control System	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	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
8-5-603.2	Determination of Emissions; Organic compounds specified in 8-5-328.2	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 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 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	
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 (01/07/1993)**		
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)(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 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

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 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 Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		**Permit to Operate Waste Water Treatment Plant**		
		For S-193, S-196, S-205 and S-206:		
11880	1	This source shall be abated by two 1200 lb (minimum: carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
11880	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	
11880	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	
11880	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	
11880	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	
11880	6	Deleted.		
11880	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 (12/15/1999)**		
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, 3 day prior written notice	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service, Vapor recovery-equipped 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 and 8-5-329	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tanks Smaller than 150 cu m	Y	
8-5-301.3	Storage Tanks Smaller than 150 cu m with vapor loss control device in compliance with 8-5-311	Y	
8-5-303	Above Ground Storage Tanks Larger than 37.5 cu m and Smaller than 75 cu m	Y	
8-5-311.3	Vapor Loss Control Device Requirements; Approved emission control	Y	
8-5-501	Records	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-311.3	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 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	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
40 CFR 60.110b(b)	Applicability and Designation of Affected Facility; Exemptions for storage vessels < 75 cu m	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(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
NESHAPS Title 40 Part 63 Subpart CC	**NESHAPS for Petroleum Refineries (06/12/1996)**		
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	

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.003		**Permit to Operate S-208 (D-920) Coker Feed Drum**		
8771	1	Deleted.		
8771	2	Deleted.		
8771	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	
8771	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	
8771	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 24 months from the date on which a record is made. [Basis: Cumulative Increase]	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

Any condition that is preceded by an asterisk is not federally enforceable.

Condition 98
For S-129 Marine Bulk Plant (LD-129)

1. The Permit Holder ~~Exxon~~ 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 ~~Exxon, Exxon~~ Permit Holder, 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 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~~part #6, provide pressure charts required in ~~condition~~part #8, and submit a report on a quarterly basis to the district. [Basis: Reporting, Compliance Verification]
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]
4. On a quarterly basis, the Permit Holder shall provide verification of each controlled transfer. [Basis: Reporting]
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]
6. The Permit Holder 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 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

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and not causing lifting of any pressure relief device shall be allowed. [Basis: ~~VOC~~ Minimization]

8. The pressure developed in the vessel tanks during lightering shall be continuously recorded while the vessel is in District waters. [Basis: Banked POC credits]

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~~]

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 ~~Exxon~~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]

11. A fugitive emissions maintenance program will be implemented on each lighter vessel used by the Permit Holder~~Exxon~~. A complete survey of all above-deck equipment will be performed by the Permit Holder ~~Exxon~~ once per quarter. [Basis: Cumulative Increase]

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~~part #6 shall be used to calculate emissions for the entire lightering event. If ~~Exxon~~ 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~~part #2.
[Basis: RACT]

13. Vessels involved in controlled lightering events shall not perform any operations ~~which~~ 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 ~~condition~~part #6 shall be used to calculate emissions for the entire loading operation. If ~~Exxon~~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

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be added to the emissions calculations and reported under ~~condition~~part #2. [Basis: Cumulative Increase]

Condition# 125
For Source S-1 Claus (F-1301A, Natural Gas)

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: Banked POC credits]
2. ~~2. The best available H2S monitoring system shall be installed at the Tail Gas Clean-up Unit exhaust stack, subject to approval by the APCO.~~ Deleted.
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: 9-1-312.2, odors]
4. Except during upset conditions, the tail gases from the S-1 Sulfur Recovery Unit shall be routed to and cleaned up by the Flexsorb SE Tail Gas Treatment Unit (A-56). The recovered hydrogen sulfide shall be returned to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: 9-1-312.2, odors]

Condition# 126
For Source S-2 Claus (F-1301B, Natural Gas]

1. Reasonable access to 24 hour sulfur production data shall be provided whenever the APCO or his 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. ~~2. The best available H2S monitoring system shall be installed at the Tail Gas Clean-up Unit exhaust stack, subject to approval by the APCO.~~ Deleted.
3. Except during upset conditions, the motor operated valve (MOV-003), ~~which~~that 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: 9-1-312.2]
4. Except during upset conditions, the tail gases from the S-2 Sulfur Recovery Unit shall be routed to and cleaned up by the Flexsorb SE Tail Gas Treatment Unit (A-56). The recovered hydrogen sulfide shall be returned to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: 9-1-312.2]

Condition 254
For S-173 Process Furnace (F-902)

1. The NOx emissions shall not exceed 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]
2. Furnace F-1060 shall not operate for more than 30 days per year. [Basis: Cumulative

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Increase]

3. A District approved Source Test shall be conducted within 30 days after start-up and every six months thereafter to determine compliance with part #1. [Basis: ~~Semi-annual Source Test~~ Cumulative Increase]
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: ~~Banking~~ Cumulative Increase]

Condition# 639
For Source S-175

1. If any visible emissions occur from the lime slurry tanks these emissions shall be abated. [Basis: ~~Public Nuisance~~ BAAQMD 11-301]

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. ~~Exxon~~Permit Holder 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: ~~Recordkeeping~~Banked POC credits]

Condition# 896
~~For Sources S-23 Process Heater and~~
S-170 Fixed Roof Tank (F-401 and TK-2317)

~~1. Emissions of NMHC from S-23 (furnace F-401) shall not exceed 10 lb/day. [Basis: BACT]~~ 1. Moved S-23 condition to Condition #14138 which also has conditions for S-23.
2. Emi~~s~~isions of NMHC from S-170 (5000 gallon polymer storage tank) shall not exceed 1 lb/day averaged over any 30-day period. [Basis: Cumulative Increase]
3. ~~Exxon~~Permit Holder shall maintain records of all tank S-170 loadings including date, type and amount of material loaded. These records shall be maintained for at least ~~two~~ five years and be available to the District upon request. [Basis: ~~Recordkeeping~~ Cumulative increase]

Condition# 1709
For Source S-129 Marine Bulk Plant (LD-129)

1. The Permit Holder ~~Exxon~~ 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 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]

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EMISSION FACTOR	LB VOC/1000 GAL	LB VOC/1000 GAL
Ship	1.80	0.22
Barge	3.40	0.30

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: ~~VOC Controls~~ Cumulative Increase]
4. The Permit Holder~~Exxon~~ 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: ~~Recordkeeping~~Cumulative Increase]
5. The Permit Holder~~Exxon~~ shall install a continuous emission monitor and recorder for mass VOC emissions at A-29 discharge emission point, unless ~~Exxon~~Permit Holder can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with ~~condition~~part 3. [Basis: ~~Monitoring~~ Cumulative Increase~~]~~
6. The Permit Holder~~Exxon~~ shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: ~~Monitoring, Records~~ Cumulative Increase]
7. The Permit Holder~~Exxon~~ shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: ~~Reporting~~ Cumulative Increase~~]~~
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 the Permit Holder~~Exxon~~ 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 Permit Holder~~Exxon~~ 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: ~~Compliance Testing~~ Cumulative Increase]
10. If the testing in ~~condition~~part 9 demonstrates a leakage rate greater than 5% of the total volume, the emissions for any leak exceeding 5% of the total volume shall be calculated using worst case assumptions, highest vapor pressure and saturated vapor space. The calculated emissions shall then be added to the total used to determine compliance with condition 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]
11. If the calculations required by ~~condition~~part 10 result in exceeding ~~condition~~part 1, the Permit Holder~~Exxon~~ shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]
12. The Permit Holder~~Exxon~~ 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

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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 ~~Exxon~~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]

13. ~~13) Within 60 days of startup, Exxon shall perform a source test of a typical controlled barge loading. This test shall measure emissions from the John Zink system and fugitive emissions from relief valves to confirm the emission factors, emission limit and bankable emissions due to the John Zink installation.~~ Deleted

14. ~~14) Source testing facilities shall be approved by the District source test staff before a permit to operate is issued.~~ Deleted

15. ~~Exxon shall not bank the reductions in this application until all equipment is installed and operating to the satisfaction of the APCO.~~ Deleted

16. The Permit Holder~~Exxon~~ shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: ~~Compliance Verification~~ Cumulative Increase]

Condition# 3253
For Source S-176 Material Handling, Salt Tank (TK-2325)

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]

Condition# 4882
For Sources S-188 Oil/Water Separator and S-189 Oil/Water Separator

1. 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]
2. S-188 and S-189 shall not be operated over the designed capacities (700 gallons per minute). [Basis: Cumulative Increase]

Condition# 7015
For Sources S-214 (BIOX Aerator) and S-215 (BIOX Clarifier)

1. The operation of S-214 (BIOX Aerator) and S-215 (BIOX Clarifier) shall not produce odors in such quantities as to cause a public nuisance under Regulation 1-301. [Basis: ~~Public Nuisance~~ BAAQMD 1-301]

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Condition# 7559
For Source S-133 (Spent Acid Tank)

~~CONDITIONS~~

1. The VOC emissions emitted from the spent acid tank (S-133) shall be routed to the flare gas recovery header (S-9). [Basis: ~~Pollution Abatement~~ Cumulative Increase]

Condition 8348
For S-1007 Alkylation Unit ~~(1000)~~ Permit condition superseded by Condition 10574.

1. Deleted. ~~Total combined fugitive POC emissions from the 13 new valves and 43 new flanges due to the installation of the plate and frame heat exchanges upstream of S-1007 Alkylation Unit shall not exceed 2 pounds in any rolling 24 consecutive hour period. The owner/operator of this equipment shall submit a revised valve and flange count within 15 calendar days of start-up in order to show compliance with this condition. If fugitive emissions from this project exceeds 2 lb/day, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: Cumulative Increase, Offsets, Toxics]~~
2. Deleted.~~The owner/operator shall implement an inspection and maintenance program for all valves and flanges associated with this project in accordance with Regulation 8, Rule18. [Basis: RACT]~~
3. Deleted.~~Each of the 43 new flanges shall not exceed a POC concentration of 200 ppm above background (expressed as methane measured at 1 cm from the flange) unless all leaks are repaired or minimized no later than 7 calendar days in accordance with Regulation 8, Rule 18. [Basis: RACT]~~
4. Deleted.~~Each of the 13 new valves shall not exceed a POC concentration of 500 ppm above background (expressed as methane measured at 1 cm from the valve) unless all leaks are repaired or minimized no later than 7 calendar days in accordance with Regulation 8, Rule 18. [Basis: RACT]~~

Condition# 8564
For Source S-57 Floating Roof Tank

1. Tank 1701 (S-57) shall not be heated while storing "light" crude oil. [Basis: Cumulative Increase]
2. The maximum vapor pressure of material stored in TK1701 shall not exceed 3.5 psi. [Basis:

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Cumulative Increase]

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 in accordance with ~~current Regulation:~~ the NESHAPS [Basis: Cumulative Increase; Offsets]

97	valves
294	flanges
3	pumps

1. ~~The owner/operator shall implement an inspection and maintenance program for all valves and flanges associated with this project in accordance with Regulation 8, Rule 18. [Basis: RACT]~~
2. ~~The owner/operator shall implement an inspection and maintenance program for all pumps associated with this project in accordance with Regulation 8, Rule 25. [Basis: RACT]~~
3. ~~Each of the 97 new valves and 294 new flanges shall not exceed a POC concentration of 500 ppm above background (expressed as methane measured at 1 cm or less from the leak source) unless all leaks are repaired or minimized no later than 7 calendar days in accordance with Regulation 8, Rule 18. [Basis: RACT, Cumulative Increase]~~
4. ~~Each of the 3 new pumps shall not exceed a POC concentration of 1000 ppm above background (expressed as methane measured at 1 cm or less from the leak source) unless all leaks are repaired or minimized no later than 7 calendar days in accordance with Regulation 8, Rule 25. [Basis: RACT, Cumulative Increase]~~

Condition# 8771
For Source S-208 Coker Feed Drum D-920

1. Deleted. ~~The owner/operator shall implement an inspection and maintenance program for all valves and flanges associated with this project in accordance with Regulation 8, Rule 18. [Basis: RACT]~~
2. Deleted. ~~Each of the 13 new valves and 41 new flanges shall not exceed a POC concentration of 500 ppm above background (expressed as methane measured at 1 cm from the valve/flange) unless all leaks are repaired or minimized no later than 7 calendar days in accordance with Regulation 8, Rule 18. [Basis: RACT]~~
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]
4. The maximum material throughput at S-208 shall not exceed 29 million gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
5. To demonstrate compliance with ~~Condition~~Part #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 ~~24 months~~5 years from the date on which a record is made. [Basis: Cumulative Increase]

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Condition# 9296
For Sources S-40 Steam Boiler, S-158 Fixed Roof Tank, S-209 Methanol Railcar Unloading Facility, S-210 Floating Roof Tank, and S-211 MTBE Process Unit S-211 MTBE Unit

A1. Total fugitive POC emissions from S-211 shall not exceed 10.58 tons in any rolling 365 consecutive day period. [Basis: Cumulative Increase]

A2. Deleted. ~~The owner/operator of S-211 shall implement an inspection and maintenance program for all pumps, valves and flanges in accordance with District Regulation 8, Rules 18, 25 and 28. Basis: RACT]~~

A3. Deleted. ~~The fugitive equipment shall have a leak concentration not to exceed 500 ppm for valves, 500 ppm for flanges and 1000 ppm for pumps above background (expressed as methane measured at 1 cm) unless the leaks are repaired or minimized no later than 7 days in accordance with Regulation 8, Rules 18, 25 and 28. [Basis: RACT]~~

S-209 Methanol Unloading Station

B1. The transport trucks shall travel on paved roads at all times inside of the ~~Exxon~~~~Permit Holder~~ ~~F~~facility. [Basis: Cumulative Increase]

B2. All deliveries of methanol shall be from the transport trucks unless the ~~Exxon~~Permit Holder first receive prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]

B3. ~~3. Exxon shall pave36,500 squarefeetof unpaved/unvegetated surface as a part of this project in advance of any operation of this new facility.~~ Deleted.

B4. The total number of truck deliveries of methanol at ~~Exxon~~~~Permit Holder~~ the facility shall not exceed 2920 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]

B5. The dispensed methanol from the transport trucks shall be delivered to the S-210 methanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]

B6. Total fugitive POC emissions from S-209 shall not exceed 0.41 tons in any rolling 12 consecutive month period. [Basis: Cumulative Increase]

B7. Deleted. ~~The owner/operator of S-209 shall implement an inspection and maintenance program for all pumps, valves and flanges in accordance with District Regulation 8, Rules 18, 25 and 28. [Basis: RACT]~~

B8. Deleted. ~~The fugitive equipment shall have a leak concentration not to exceed 500 ppm for valves, 500 ppm for flanges and 1000 ppm for pumps above background (expressed as methane measured at 1 cm) unless the leaks are repaired or minimized no later than 7 days in accordance with Regulation 8, Rules 18, 25 and 28. [Basis: RACT]~~

B9. The total number of truck deliveries of methanol shall be recorded weekly in a District

VI. Permit Conditions

approved log and totalized monthly. This record shall be retained for a period of at least 5~~2~~ years from date of entry. It shall be kept on site and made available to District staff upon request. [Basis: ~~Recordkeeping~~Banked POC credits]

S-210 Methanol Tank

C1. The total throughput of product from S-210 shall not exceed 575,000 barrels of methanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]

C2. Total POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, shall not exceed 0.87 tons in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]

C3. Deleted. ~~The owner/operator of S-210 shall implement an inspection and maintenance program for all pumps, valves and flanges in accordance with District Regulation 8, Rules 18, 25 and 28. [Basis: RACT]~~

C4. Deleted. ~~The fugitive equipment shall have a leak concentration not to exceed 500 ppm for valves, 500 ppm for flanges and 1000 ppm for pumps above background (expressed as methane measured at 1 cm) unless the leaks are repaired or minimized no later than 7 days in accordance with Regulation 8, Rules 18, 25 and 28. [Basis: RACT]~~

C5. The S-210 internal floating roof tank shall only store methanol 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]

C6. The total monthly throughput of methanol withdrawn from the S-210 Storage Tank ~~S~~shall be recorded in a District approved log. This record shall be retained for a period of at least ~~2~~3 years from date of entry. It shall be kept on site and made available to District staff upon request. [Basis: ~~Recordkeeping~~Cumulative Increase]

S-40 Steam Boiler

D1. The steam boiler (S-40) shall be equipped with Low NOx burners and flue gas recirculation. [Basis: ~~BARCT~~BAAQMD 9-10, Offsets, Cumulative Increase]

D2. The NOx concentration shall not exceed 30 ppmv, dry, corrected to 3 % oxygen, as averaged over any consecutive 12 month period. (Basis: Offsets)

D3. The CO concentration shall not exceed 400 ppmv, dry, corrected to 3 % oxygen. [Basis: ~~BARCT~~BAAQMD 9-10, Cumulative Increase]

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. [Basis: Offsets]

D5. Completed

D6. ~~Exxon~~the ~~P~~permit Holder shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in ~~Condition number~~part 4. These records shall be

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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: ~~Recordkeeping~~Banked POC credits]

D7. The maximum firing rate of the S-40 Utility package Boiler shall not exceed 218 million Btu per hour. (Basis: ~~BARCT,~~ Cumulative Increase, Toxics)

D8. Deleted. ~~For S-40, the Permit holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. (BARCT: Regulation 9-10, Monitoring, Records)~~

D9. Deleted. ~~The S-40 Steam Boiler shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. [Monitor and Recorder]~~

D10. The Permit Holder shall keep records of all necessary information to demonstrate compliance with all permit conditions. 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: [Basis: ~~Recordkeeping~~Cumulative Increase Offsets~~]~~

CEM data and CEM indicated excesses;
Fuel gas H2S concentration (24-hour average);
Fuel gas total reduced sulfur concentration (24 hour Average)
Fuel gas type and fuel usage rates (cubic feet/day)
Fuel heat content, HHV [24-hour average]
Actual daily firing rate (Btu/day)

11. Deleted. ~~In addition to the recordkeeping requirement in Condition #10, the Permit holder shall maintain all records in accordance with Regulation 9-10-504. [BARCT Records: Regulation 9, Rule 10]~~

Condition# 9584
For Source S-158 Fixed Roof Storage Tank

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]
2. To demonstrate compliance with ~~Condition~~Part #1, monthly throughput records 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 ~~24 months~~ 5 years from the date on which a record is made. [Basis: ~~Recordkeeping~~Cumulative Increase]

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For Source S-11 Activated Carbon Bin TK-2061

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]
2. To demonstrate compliance with ~~Condition~~Part #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~~five years from the date on which a record is made. [Basis: ~~Recordkeeping~~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

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

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

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F. Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. For ~~condition~~ Part 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: ~~Monitoring~~ BACT] ~~Recordkeeping & Monthly Reporting~~

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: [Basis: ~~Recordkeeping~~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. Any process vessel depressurization shall be vented to a control device with an overall capture and destruction efficiency of 95%, on a mass basis. [Basis: Cumulative Increase]

I. Deleted. ~~In addition to the records required to be kept as part of Condition G, the Permit Holder shall maintain all records in accordance with Regulation 9-10-504. [Basis: BARCT Records: Regulation 9, Rule 10]~~

FUGITIVES

S-1020 Heartcut Tower
S-1021 Heartcut Saturation Unit
S-1022 Catalytic Reformer T90 Tower
S-1023 Catalytic ~~Naphta~~Naphtha T90 Tower
S-1024 Light Catalytic ~~Naptha~~Naphtha Hydrotreater
S-1025 C5/C6 Splitter
S-220 Hot Oil System
S-227 Storage Tank

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~~S-228 Storage Tank~~
~~S-229 Storage Tank~~
S-1007 Alkylation Unit
S-1011 Heavy Catalytic ~~Naptha~~Naphtha Hydrotreater
S-1014 Virgin Light Ends Unit
S-151 Waste Water Treatment Unit
S-1003 Hydrocracking Unit

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
2. Deleted. ~~Any new pump installed as part of the CFP shall be inspected in accordance with the requirements of District Regulation 8, Rule 25. [Basis: RACT]~~
3. Deleted. ~~Any pump found to be leaking in excess of 500 ppm shall be subject to the leak repair requirements of District Regulation 8, Rule 25. All leaks shall be repaired or minimized no later than 7 calendar days after the inspection date. [Basis: RACT]~~
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]
5. Except as required by ~~Condition~~Part 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]
6. Deleted. ~~All accessible hydrocarbon valves shall be inspected quarterly and inaccessible valves shall be inspected annually using a District approved leak detection device. Any valve found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of District Regulation 8, Rule 18. All leaks shall be repaired or minimized no later than 7 calendar days after the inspection date. [Basis: BACT, Offsets, Cummulative Increase, Toxics]~~
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. ~~Deleted. Any flange found to be leaking in excess of 500 ppm shall be subject to the leak repair requirements of Regulation 8, Rule 18. All leaks shall be repaired or minimized no later than 7 calendar days after the inspection date.~~ [Basis: BACT, Offsets, Cum~~m~~ulative Increase, Toxics]
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

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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. ~~All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 25. Any compressor found to be leaking in excess of 500 ppm shall be subject to the leak repair requirements of District Regulation 8, Rule 25.~~ 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, Cum~~m~~ulative Increase, Toxics, NSPS]

9. Completed

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]

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]

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-1025, S-220, ___S-227, ~~S-228, S-229,~~ 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~~Part ~~number~~# 9. [Basis: Cumulative Increase]

FUEL GAS SYSTEM

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]

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]~~>~~

15. The Permit Holder~~Exxon~~ 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].

16. ~~16.~~ The Permit Holder~~Exxon~~ 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~~ Parts No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, ~~Exxon~~the Permit Holder 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~~,~~

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(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: ~~Recordkeeping~~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. 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]
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: <Basis: BACT, Cumulative Increase, Offsets> <Basis: SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888> S-21, S-22 and S-220

Pollutant 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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1. ~~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~~Deleted.

19. The three furnaces (S-21, S-22 and S-220) shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis:

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Monitoring and records]

20. The Permit Holder~~Exxon~~ shall calculate and totalize N0x, 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: ~~Yearly summary of records for Compliance Verification~~ BACT, Cumulative Increase]

21. 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 shall be limited to Ringelmann No. 1.0 or 20% opacity. [Basis: ~~Visible Emissions~~ 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, 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]
24. For the S-220 Hot Oil System, CO emissions shall not exceed 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MM Btu) averaged over 8 hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]
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]
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]
27. Deleted. ~~For source S-220, the Permit Holder~~~~Exxon shall install, calibrate, maintain, and~~

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~~operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]~~

28. Completed
29. The total combined heat input for S-220 shall not exceed 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]
30. The maximum firing rate of the S-220 MRU Hot Oil Furnace shall not exceed 351 million Btu per hour. (Basis: ~~BARCT,~~ 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 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 acco~~u~~rdance 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 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]
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: ~~BARCT~~BAAQMD 9-10]
34. Not Implemented
35. Not Implemented
36. Completed
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]
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: ~~BARCT,~~ Cumulative Increase, Toxics)
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: ~~BARCT,~~ Cumulative Increase, Toxics)
40. Deleted. ~~For S-21, the permit holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. (Basis: BARCT: Regulation 9-10, Monitoring, Records)~~
41. Deleted. ~~For S-22, the permit holder shall install, calibrate, maintain, and operate a District-~~

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~~approved continuous emission monitor and recorder for NOx and O2. (Basis: BARCT: Regulation 9-10, Monitoring, Records)~~

TANKAGE

S-227 175,000 Barrel Fixed Roof Tank
~~S-228 175,000 Barrel Fixed Roof Tank~~
~~S-229 71,000 Barrel Fixed Roof Tank~~

42. The S-227 ~~and S-228 Pe~~Pentane Storage Tank~~s~~ shall be a fixed roof tank~~s~~ connected to the A-46/A-47 vapor recovery system. ~~The S-229 pentane storage tank shall be a fixed roof tank and connected to the A-48/A-49 vapor recovery system. NSPS requirements of 40 CFR 60, Subpart Kb will be applied to these tanks.~~ NSPS requirements of 40 CFR 60, Subpart Kb will be applied to this tank. [Basis: Cumulative Increase, Offsets, Toxics]
43. Tank~~s~~ S-227~~, S-228 and S-229~~ shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: ~~BARCT~~BAAQMD 8-5]
44. The Permit Holder~~Exxon~~ shall not store any material in S-227~~, S-228 and S-229~~ storage tank~~s~~, other than the materials specified in this application for the tank~~s~~, 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~~Exxon~~ 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. 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]

TOXICS

46. Completed

OFFSETS (DISTRICT EMISSIONS BANK)

47. Completed

48. Completed

49. Completed

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50. No longer applicable due to Regulation 9, Rule 10 compliance.

Condition# 10633
For Source S-97 Floating Roof Tank (TK-1776)

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 ~~two~~ five years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: ~~Recordkeeping~~2-6-503]

Condition# 10797
For Source S-207, Floating Roof Tank

1. The total release of emissions from this S-207 project for delivery and storage of MTBE, which includes the cargo ships and tugs in District waters, shall not exceed the following limits in any rolling 365 consecutive day period ~~the following limit~~: [Basis: Cumulative Increase]

Pollutant	Tons
NOx	36.7
CO	3.7
POC	8.1
SO2	9.5
PM10	1.6

2. The total release of POC emissions from this S-207 MTBE project shall not exceed 140 pounds in any rolling 24 consecutive hour period. This POC total is defined as the sum of all project-related emissions from: (a) the storage tank; (b) valves, pumps and flanges (fugitive emissions); and (c) the cargo ships and tugs in District waters, assist tugs, tugs during maneuvering and (d) transferring of the MTBE from the cargo carrier to the S-207 Receipt Tank. [Basis: Cumulative Increase]
3. Deleted. ~~The owner/operator of S-207 shall implement an inspection and maintenance program for all pumps, valves and flanges associated with the land-based aspects of this project in accordance with District Regulation 8, Rules 18, 25 and 28. [Basis: RACT]~~
4. The S-207 External Roof Storage Tank shall store MTBE and/or mogas only . [Basis: Cumulative Increase, BACT, Offsets, Toxics]
5. The total throughput of MTBE at S-207 shall not exceed 5,800,000 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
6. The total throughput of mogas at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]

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7. The total daily throughput of MTBE and mogas withdrawn from the S-207 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least ~~two~~ five years from date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: ~~Recordkeeping~~Cumulative Increase]
8. The owner/operator shall maintain daily records (calendar day), in a District approved log, for: (1) the total number of MTBE deliveries by ship and barge, (2) ship and tug boat fuel usage (actual or estimated if not logged in) in District waters attributable to the S-207 project only, (3) type of fuel, (4) hours of ship operation in District waters attributable to the S-207 project only, (5) size capacity of ship and barge in DWEIGHT. In addition, the daily throughput of MTBE transferred at the refinery~~Exxon~~ dock from the cargo ship or barge to S-207 shall be recorded in a District approved log. All records shall be retained for a period of at least five~~two~~ years from the date of entry. This log shall be kept on site and made available to the District on request. If a cargo carrier for this S-207 project calls on multiple ports, such as in Martinez, the Permit Holder~~Exxon~~ will be charged for all round trip emissions from the port to the existing refinery~~Exxon~~ dock in Benicia and back to port. For the purposes of record keeping, the Permit Holder~~Exxon~~ needs to maintain records only for the portion of the project chargeable to their operation. [Basis: ~~Recordkeeping~~Cumulative Increase]
9. On the day of MTBE delivery at the refinery~~Exxon~~ and each day of MTBE transfer from the cargo carrier to S-207, the owner/operator shall determine, using a District approved calculation procedure, the total POC emissions from this project to verify compliance with ~~Conditions~~ Part Number 2. These daily totals shall be entered into the log and shall be summarized monthly. A ~~Q~~quarterly summary report shall be submitted to the District by the 10th day of the month following the close of the quarter. All records shall be retained for at least ~~two~~ five years from date of entry. This log shall be kept on site and made available to the District staff upon request. [Basis: ~~Recordkeeping~~Cumulative Increase]

Condition# 11030
For Sources S-3 and S-4 Furnaces

1. The start-up of the CO Furnaces (S-3 and S-4) shall not exceed 72 hours. [Basis: Cumulative Increase]
2. The shutdown of the CO Furnaces (S-3 and S-4) shall not exceed 120 hours. [Basis: Cumulative Increase]
3. When the ER&E Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 300 ppm, dry at 3% oxygen, based on an operating day average. [Basis: Cumulative Increase]
4. To demonstrate compliance with ~~Condition~~Parts #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~~24~~ months from the date on which a record is made. [Basis: ~~Recordkeeping~~ Cumulative Increase]

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5. Deleted~~No later than 30 days after startup, the operator shall conduct a District approved source test on S-3 and S-4 to demonstrate compliance with the 300 ppm NOx limit imposed in Condition~~Part ~~#3. All source test shall be done in accordance with the District's Manual of Procedures. The operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the District Technical Section, prior to any operation of A-52 and A-53. The test result shall be delivered to the District within one month from the date of test.~~
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]
7. The total consumption of refinery fuel gas at each source shall not exceed the following:
   S-3 CO Furnace: 30.6 million therms per year (Basis: Cumulative Increase)
   S-4 CO Furnace: 14.9 million therms per year (Basis: Cumulative Increase)

Condition# 11879
For Source S-150 Sour Wastewater Tank

~~S-150~~

1. The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: ~~BARCT~~BAAQMD 9-10)
2. The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: ~~BARCT~~BAAQMD 9-10)

3. The VOC destruction~~construction~~ efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The minimum oxidation ~~outlet~~ temperature of A-56 Thermal Oxidizer shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with ~~Condition~~Part #3~~.~~. (Basis: Regulation2-1-403)
5. The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the oxidation~~outlet~~ temperature in __A-56. (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 ~~Condition~~Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of ~~Condition~~Part 4 shall not apply during an "Allowable

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Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:

a. A temperature excursion not exceeding 20oF.

b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.

c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.

(1) The excursion does not exceed 50oF.

(2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)

For each Allowable Temperature Excursion that exceeds 20oF and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

a. Thermal oxidizer controller set temperature.

b. Starting date and time, and duration of each Allowable Temperature Excursion.

c. Minimum temperature during each Allowable Temperature Excursion.

d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year.

e. All strip charts or other temperature records.

(Basis: Regulation 2-1-403)

8. Deleted~~No later than 30 days after startup, the Permit Holder shall conduct a BAAQMD-approved source test to determine compliance with the NOx, CO and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Permit Holder shall install all necessary source test ports, subject to the approval of the Manager of the Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO And VOC shall be submitted to the BAAQMD staff no later than 30 days after the source test. (Basis: Compliance Verification)~~

9. This source shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal oxidizer in series at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]

10. The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]

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11. 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 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~~, Monitoring~~]
12. To demonstrate compliance with ~~Condition~~Part 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~~24~~ months from the date on which a record is made. NMHC emissions from A-56 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: ~~Recordkeeping~~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 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. 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]
15. Deleted. ~~The operator shall conduct an Inspection and Maintenance program on any connectors, valves and pump Seals, as required by Regulation 8-18 and Regulation 8-25. [Basis: RACT]~~
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: ~~Monitoring~~ Cumulative Increase]

Condition# 11880
For Sources S-193, S-196, S-205, and S-206 Wastewater Tanks

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1. This source shall be abated by two 1200 lb (minimum) carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]
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]
3. 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. [Basis: ~~Monitoring~~ Cumulative Increase]
4. To demonstrate compliance with ~~Condition~~Part (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~~24~~ months from the date on which a record is made. [Basis: ~~Recordkeeping~~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 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. ~~The operator shall conduct an Inspection and Maintenance program on any flanges, valves and pump seals as required by Regulation 8-18 and Regulation 8-25. [Basis: RACT]~~

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: ~~Monitoring~~ Cumulative Increase~~]~~

Condition# 11882
For Sources S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056

1. The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: ~~BARCT~~BAAQMD 9-10)

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2. The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: ~~BARCT~~BAAQMD 9-10)
3. The VOC construction efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The minimum outlet temperature of A-56 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with ~~Condition~~Part #3. (Basis: Regulation 2-1-403)
5. The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis:~~ Monitoring~~ 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 ~~Condition~~Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of ~~Condition~~Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:
   a. A temperature excursion not exceeding 20oF.
   b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.
   c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.
   (1) The excursion does not exceed 50oF.
   (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)

   For each Allowable Temperature Excursion that exceeds 20oF and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:
   a. Thermal oxidizer controller set temperature.
   b. Starting date and time, and duration of each Allowable Temperature Excursion.
   c. Minimum temperature during each Allowable Temperature Excursion.
   d. Number of Allowable Temperature Excursions per month , and total number for the current

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calendar year.

e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)

8. Deleted~~No later than 30 days after startup, the Permit Holder shall conduct a BAAQMD-approved source test to determine compliance with the NOx, CO and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Permit Holder shall install all necessary source test ports, subject to the approval of the Manager of the Source Test in the BAAQMD Technical Services Division. The source test results for NOx and CO shall be submitted to the BAAQMD staff no later than 30 days after the source test. (Basis: Compliance Verification)~~

9. These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) in series or the A-56 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]

10. The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]

11. 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 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase, ~~Monitoring~~]

12. To demonstrate compliance with ~~Condition~~Part 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-56 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: ~~Recordkeeping~~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 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]

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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: ~~Demonstration of Compliance~~ Cumulative Increase]

15. Deleted. ~~The operator shall conduct an Inspection and Maintenance program on any connectors, valves and pump seals as required by Regulation 8-18 and Regulation 8- 25.~~

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: ~~Monitoring~~ Cumulative Increase]

Condition# 11883
For Source S-201 (Truck Loading Operation)

1. This source shall be abated by vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]
2. Deleted. ~~The operator shall conduct an Inspection and Maintenance program on any connectors, valves and pump seals as required by Regulation 8-18 and Regulation 8- 25. [Basis: RACT]~~

Condition# 11884
For Source S-202 (Truck Loading Operation)

1. This source shall be abated by vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]
2. ~~The operator shall conduct an Inspection and Maintenance program on any connectors, valves and pump seals as required by Regulation 8-18 and Regulation 8- 25. [Basis: RACT]~~Deleted.

Condition# 11888
For Source S-131 Wastewater Sludge Drum D-2069

1. The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)
2. The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)
3. The VOC destruction ~~construction~~ efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)

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4. The minimum oxidation ~~outlet~~ temperature of A-56 Thermal Oxidizer shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with ~~Condition~~Part #3. (Basis: Regulation 2-1-403)
5. The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis: 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 ~~Condition~~Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of ~~Condition~~Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:
   a. A temperature excursion not exceeding 20oF.
   b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.
   c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.
   (1) The excursion does not exceed 50oF.
   (2) The duration of the excursion does not exceed 24 hours.
   Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit (Basis: Regulation 2-1-403)
   For each Allowable Temperature Excursion that exceeds 20oF and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:
   a. Thermal oxidizer controller set temperature.
   b. Starting date and time, and duration of each Allowable Temperature Excursion.
   c. Minimum temperature during each Allowable Temperature Excursion.
   d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year.
   e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)
8. Deleted~~No later than 30 days after startup, the Permit Holder shall conduct a BAAQMD-approved source test to determine compliance with the NOx, CO and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Permit Holder shall install all necessary source test ports, subject to the approval of the~~

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~~Manager of the Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the BAAQMD staff no later than 30 days after the source test. (Basis: Compliance Verification)~~

9. This source shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal Oxidizer in series at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]

10. The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: RACT]

11. 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 services, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: ~~Monitoring~~ Cumulative Increase]

12. To demonstrate compliance with ~~Condition~~Part 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~~24~~ months from the date on which a record is made. NMHC emissions from A-56 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: ~~Recordkeeping~~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 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. 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: ~~Demonstration of Compliance, Monitoring~~ Cumulative Increase]

15. Deleted. ~~The operator shall conduct an Inspection and Maintenance program on any connectors, valves and pump seals as required by Regulation 8-18 and Regulation 8-25. [Basis: RACT]~~

16. A monitoring device that continuously indicates and records the VOC concentration level or

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reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: ~~Monitoring~~ Cumulative Increase~~]~~

Condition# 12727
For Sources S-232 ESP Fines Vacuum Conveying system
and S-233 ESP Fines Storage Bin]

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]
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]
3. The operation of S-232 shall be abated properly by the Vacuum Filter (A-54). [Basis: Cumulative Increase]
4. The operation of S-233 shall be abated properly by the Bin Filter (A-55). [Basis: Cumulative Increase]
5. To demonstrate compliance with ~~Condition~~Parts #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 60~~24~~ months from the date on which a record is made. [Basis: ~~Recordkeeping~~ Cumulative Increase]

Condition# 13045
For Source S-143 Fixed Roof Tank

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]
2. To demonstrate compliance with ~~Condition~~Part #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 24 months from the date on which a record is made. [Basis: ~~Recordkeeping]~~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
~~and~~ S-198 Induced Static Flotation Cell 2057

1. The emissions of nitrogen oxides (NOx) 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)

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2. The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: ~~BARCT~~BAAQMD 2-2-112)
3. The VOC destruction ~~construction~~ efficiency of the A-56 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The minimum oxidation~~outlet~~ temperature of A-56 Thermal Oxidizer shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with ~~Condition~~Part #3. (Basis: Regulation 2-1-403)
5. The A-56 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-56. [Basis: ~~Monitoring~~ 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 ~~Condition~~Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of ~~Condition~~Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:

   a. A temperature excursion not exceeding 20 degrees Fahrenheit~~oF~~.

   b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.

   c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.

   (1) The excursion does not exceed 50 degrees Fahrenheit~~oF~~.

   (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)

   For each Allowable Temperature Excursion that exceeds ~~20oF~~ 20 degrees Fahrenheit and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of two years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

   a. Thermal oxidizer controller set temperature.

   b. Starting date and time, and duration of each Allowable Temperature Excursion.

   c. Minimum temperature during each Allowable Temperature Excursion.

   d. Number of Allowable Temperature Excursions per month, and total number for the current

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calendar year.

e. All strip charts or other temperature records.

(Basis: Regulation 2-1-403)

8. No later than 30 days after startup, the Permit Holder shall conduct a BAAQMD-approved source test to determine compliance with the NOx, CO and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Permit Holder shall install all necessary source test ports, subject to the approval of the Manager of the Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the BAAQMD staff no later than 30 days after the source test. ~~(~~[Basis: ~~Compliance Verification)~~NSPS]

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]

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: ~~Monitoring~~ NSPS]

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]

12. Deleted. ~~The operator shall conduct an Inspection and maintenance program on any connectors, valves and pump seals as required by Regulation 8-18 and Regulation 8-25. [Basis: RACT]~~

13. Deleted~~The API separator (S-47) and two Dissolved Air Flotation Tanks (S-152 and S-153) shall be replaced by S-194, S-195, S-197 and S-198.~~

14. These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) or the A-56 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]

15. The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-56 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]

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-37carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: ~~Monitoring~~ Cumulative Increase]

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17. To demonstrate compliance with ~~Condition~~Part 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~~24~~ months from the date on which a record is made. NMHC emissions from A-56 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: ~~Recordkeeping~~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. 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: ~~Monitoring~~Cumulative Increase]

Condition# 14318
For Source S-23 Process Oil Furnace

1. Emissions of NMHC from S-23 (Furnace F-401) shall not exceed 10 lb/day. [Basis: BACT]
2~~1~~ Emission of NOx shall not exceed 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]
3~~2~~. NOx and oxygen shall be continuously monitored (per Manual of Procedures). [~~Basis: Monitoring~~~~Cumulative~~Basis: Cumulative Increase]
4~~3~~. Maximum firing of furnace shall not exceed 200 x ~~10E6~~million BTU/Hr. heat input for any one hour period and 185 x ~~10E6~~ 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~~4~~. As per Regulation 10-8-303, hydrogen sulfide shall be continuously monitored and shall not exceed 160 ppm (dry). [Basis: Cumulative Increase, ~~Monitoring~~BAAQMD 10-8-303]
6~~5~~. All data pertaining to (1), (2), (3), (4), above shall be readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verification through Records]

Condition# 15512
For Source S-1010 Hydrogen Plant
1. The precursor organic compounds from the deaerator vents associated with the operation of S-1010 Hydrogen Plant shall be routed downstream to the S-40 and/or S-41 boilers at all times in which the source is in operation. [RACT]

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Condition # 16027
For Source S-237 (SG-1032), Boiler

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]
2. Completed.
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>
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. [Basis: BACT~~]~~, ~~<~~Contemporaneous offsets for S02 and PM10 emissions>
5. Fuel Gas System: 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 low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. [Basis: Cumulative Increase~~Monitoring and records~~]
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~~ 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~~[Basis: ~~Recordkeeping~~ Cumulative Increase]
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~~[Basis: Cumulative Increase, Toxics, offsets]
8. Total emissions form this combustion source (S-237) including startups and shutdowns, shall not exceed the following annual limits: ~~Basis~~[Basis: Cumulative Increase, Offsets>

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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 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~~[Basis: Monitoring and Records>

10. Visible emissions from the S-237 Boiler shall be limited to Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. [~~Visible Emissions, Public Nuisance~~ BAAQMD 6-301]

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~~[Basis: Cumulative Increase, offsets, operational allowances>

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~~[Basis: BACT, offsets>

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]

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~~[Basis: BACT]

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~~[Basis: Cumulative Increase, Monitoring, ~~Good Operating Practice,~~ Toxics>

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16. The Permit Holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. ~~Basis~~[Basis: Monitoring and Records>
17. Completed.

Throughput Limitation

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~~[Basis: Cumulative Increase, Offsets>
19. The total combined heat input for S-237 shall not exceed 7560 million BTUs in any calendar day period. ~~Basis~~[Basis: Cumulative Increase>
20. ~~Except during startup and shutdown, the~~ 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. ~~Basis~~[Basis: Permanency of Contemporaneous Banking credit, Offsets>
21. ~~Except during startup and shutdown, the~~ The emissions from the S-37 Steam generator and the S-45 Gas Turbine shall be abated by the A-51 Selective Catalytic Reduction System at all times in which it is in operation. ~~Basis~~[Basis: Permanency of Contemporaneous Banking credit, Offsets>
22. The Permit Holder 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 9-10-305]

Condition 16186 is obsolete. The source no longer exists.

~~Condition# 16186~~
~~For Source S-238 (Temporary Boiler)~~

~~1. This non-renewable temporary permit for S-238 boiler is valid for a period not to exceed 90 days from the date of issuance. <Cumulative Increase, NSR>~~
~~2. Visible emissions from the S-238 Boiler shall be limited to Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. <RACT>~~
~~3. Exxon shall provide the District with a NOx emissions summary no later than 30 calendar days after the expiration of the temporary permit. The report shall show the total emissions emitted from the S-238 boiler and the corresponding emissions reduction from each affected source. If there is a net emissions reduction, as anticipated, no additional offsets are needed. If there is a net increase, Exxon shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 calendar days after the submittal of the NOx summary report.~~

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~~<Offsets>~~

Condition # 16386
For Sources S-37, S-45 (SG-702, GT-702), S-37, S-6-702, S-45, Turbine (GT-702) Steam Generator

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>

~~2. Except during startup and shutdown, the NOx emissions from the S-45 Gas Turbine shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Basis[Basis: Regulation 9, Rule 9 BARCT Compliance, Permanency of Contemporaneous Banking Credit, Offsets>~~ Deleted.

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 operational. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>

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: [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. 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. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>

6. ~~Valero Refining Company~~ Permit Holder 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. [Basis: Regulation 9, Rule 9, enforceability of contemporaneous banking credit, offsets>

7. The total emissions of nitrogen oxides (NOx) emissions for S-37 Steam Generator shall not exceed 23.851 tons per calendar year. [Basis: Permanency of Actual Emissions Reduction for S-237>

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

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date of first entry. [Basis: ~~Recordkeeping~~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 # 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. Total liquid throughput at source S-239 shall not exceed 102,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)
2. S-239 shall be equipped with a submerged fill pipe. (Basis: Regulation 8-5-301)
3. In order to demonstrate compliance with the ~~condition~~ 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 24 months from the date that the record was made. (Basis: Cumulative Increase)

Condition # 18748

For Sources S-240, S-241 and S-242 Emergency Generators

1. The engines for emergency generators ~~S-239,~~ S-240, ~~and~~ S-241, and S-242 shall be fired 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]
"Emergency Conditions" is defined as any of the following: [Basis: Regulation 9-8-231]
a. Loss of regular natural gas supply
b. Failure of regular electric power supply

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c. Flood mitigation
d. Sewage overflow mitigation
e. Fire
f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor

2. S-240, S-241, and S-242 ~~S-239, S-240 and S-241~~ shall only be operated to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 100 hours in any calendar year at each engine. Operation while mitigating emergency conditions is unlimited.
[Basis: Regulation 9-8-330, Cumulative Increase]
"Reliability-related activities" is defined as any of the following:
[Basis: Regulation 9-8-232]
a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
b. Operation of an emergency standby engine during maintenance of a primary motor

3. S-240, S-241, and S-242 ~~S-239, S-240 and S-241~~ shall be equipped with either:
non-resettable totalizing meter that measures and records the hours of operation for the engine
OR
b. a non-resettable fuel usage meter; the following. factors shall be used to convert fuel usage to hours of operation:
S-~~239~~240: 31 gal/hr
S-241~~0~~: 13 gal/hr
S-242~~1~~: 39 gal/hr
[Basis: Regulation 9-8-530]

4. The following monthly records shall be maintained in a District-approved log for at least 5 years for S-240, S-241, and S-242 ~~S-239, S-240 and S-241~~ and shall be made available for District inspection upon request: [Basis: Regulations 9-8-530, 1-441]
a. Total hours of operation for each engine
b. Hours of operation under emergency conditions for each engine and a description of the nature of each emergency condition
c. Fuel usage for each engine

Condition # 76003
For Source S-108 Pressurized Tank (TK-1801)

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]

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Condition 19176
For Sources S-16, S-17, S-18, S-19 Flares (ST-2101AG, ST-1701, ST-2101, ST-2103)

1. The Flares, S-16, S-17, S-18, S-19 should be inspected as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S-19, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6-409.2]

2. The operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S-19, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S-18, S-19, and all instances which operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis: 2-6-409.2]

Condition # 19177

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

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)	

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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.

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~~ 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 Gas Turbine combustors and Heat Recovery Steam Generator duct burners shall be tuned 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 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.
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 parts 18(a), 18(b), 19(b) 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

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(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 trainstack
   - 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 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.
9. The District-approved continuous emission monitors specified in part 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.
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.
11. The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic

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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. 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 day
    PM10 224.08 pounds per calendar day
    SO2 516 pounds per calendar day.
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)
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 S-1032 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)
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)
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)
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)
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)

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18a. 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)

18b. 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)

18c. 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)

18d. Precursor organic compound (POC) mass emissions (as CH4) from P-60 or P-62 shall not exceed 2.0372 pounds per hour or 0.002515 Lb/MM Btu of natural gas fired. Compliance will be based on the initial source test. (Basis: BACT for POC when firing natural gas)

18e. 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 part # 35. (Basis: BACT for SO2 when firing natural gas),

18f. 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 part # 35. (Basis: BACT for PM10 when firing natural gas)

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)

19a. 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)

19b. 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)

19c. 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)

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19d. 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)

19e. 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)

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19f. Precursor organic compound (POC) mass emissions (as CH_4) 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)

19g. Sulfur dioxide (SO_2) 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 (H_2S) concentrations in refinery fuel gas shall not exceed 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)

19h. Particulate matter (PM10) mass emissions from P-60 or P-62 shall not exceed 4.65 pounds per hour 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 Demonstration of compliance will be based on source test results. (Basis: BACT for PM10)

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)

21. A District approved initial source test will be commenced within 60 days of startup to demonstrate compliance with the NOx, CO, POC, TRS, SO_2, PM10, NH_3, and SAM levels in Parts number 18, 19 or 20. For purposes of SAM, the applicant shall also test for SO_3 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, Toxic Risk Management Policy]

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)

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)

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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 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 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)

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

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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]

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]

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)

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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 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)
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. 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]
32. Pursuant to BAAQMD Regulation 2, Rule 6, section 404.3, the owner/operator of the Valero Power Plant shall submit an application to the BAAQMD for a significant revision to the Major Facility Review Permit prior to commencing operation. (Basis: Regulation 2-6-404.3)

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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 Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)

35. The owner 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 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 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]

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, Monitoring]

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: ~~POC and PM10 Periodic Monitoring~~ BACT]

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40. The owner 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 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]

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)

42. ~~All hydrocarbon valves shall be inspected per District Regulation 8, Rule 18 using a District approved leak detection device. Any valve found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of District Regulation 8, Rule 18. (Basis: RACT)~~Deleted

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. Deleted. ~~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. 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)

45. Deleted. ~~All new fugitive equipment in organic service will be integrated into the owner's fugitive equipment monitoring and repair program and will meet the requirements of District Regulation 8-18. (Basis: Compliance monitoring)~~

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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 (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. The S-38 and S-39 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1030 and S-1031 power train. The applicant shall enter into the record log the date each boiler was shutdown. (Basis: offsets)

48. The S-41 steam boiler 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 boiler was shutdown. (Basis: offsets)

Condition 19466
For S-1, S-2, S-5, S-6, S-7, S-8, S-10, S-11, S-12, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-36, S-38, S-39, S-43, S-44, S-46, S-159, S-160, S-167, S-168, S-176, S-188, S-232, S-233, S-237

1. The Permit Holder shall conduct an annual District-approved source test on the S-1 and S-2 Claus Units to demonstrate that 95% of the H2S in the refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of the H2S in the process water streams is removed and recovered on a refinery-wide basis AND 95% of the ammonia in the process water stream is removed. 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. The test shall include sampling of the inlet and outlet of the fuel gas scrubber and sour water stripper towers. [Basis: Regulation 9-1-313.2]

2a. The Permit Holder shall conduct an annual District-approved source test on the S-188, CPS Units, to demonstrate that the combined collection/destruction efficiency of A-13 and A-26 is no less than 95%, by weight, for VOC. 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 8-8-302.3]

2b. The Permit Holder shall conduct an annual District-approved source test on the S-189, ISF Units, to demonstrate that the combined collection/destruction efficiency of A-13 and A-26 is no less than 70%, by weight, for VOC. 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

VI. Permit Conditions

be made available to District staff upon request. [Basis: Regulation 2-6-503]

2c. The Permit Holder shall conduct an annual District-approved source test on the S-160, Seal Oil Sparger, to demonstrate Regulation 8-2-301. 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]

3. The permit holder shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]

4. The owner/operator shall notify the District no less than three calendar days in advance of the startup or shutdown of any source. [Basis: Regulation 2-1-403]

5. The emissions from the S-3 and S-4, CO Boilers, shall be abated by the A-1 through A-5 Electrostatic Precipitators and exhausted through the main stack (P-1). [Basis: Regulation 6-301 and Regulation 6-304].

6. The permit holder shall perform an annual source test on Sources S-1, S-2, S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 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 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 6-310]

7. The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310.3 (outlet grain loading no greater than 0.15 grain/dscf @ 6% oxygen). 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 6-310.3]

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8. The Permit Holder shall perform semi-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 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 6-330]

9. The Permit Holder shall perform an annual source test on Sources S-5, S-6, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). 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 6-311]

10. The Permit Holder shall conduct a District-approved source test on an semi-annual basis on Sources S-7, S-20, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-38 and S-39 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]

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 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-9-301.1]

12. The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase]

13. The VOC emissions from S-167 and S-168 Seal Oil Spargers shall be vented in a closed system to the fuel gas header to be introduced into the refinery fuel gas stream. [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 and CO limits at the following sources:
    Furnaces: S-3, S-4
    Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-173, S-220

VI. Permit Conditions

S-40, S-41: Steam Generators

15. The owner/operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the following sources:

S-3, S-4	Furnaces
S-5	Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-6	Fluid Coker

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 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 9-1-501, 9-1-310.3, AND 9-1-110	C	SO_2 GLM
Ambient H_2S	BAAQMD 9-2-301	Y		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 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)	P/A	Report
Benzene in Waste	40 CFR 61 Subpart FF 61.342(e)(2)(i)	Y		Uncontrolled benzene <6 megagrams/year	40 CFR 61 Subpart FF 61.357(d)(5)	P/A	Report
		Y		Benzene Waste NESHAPS Quarterly Report	40 CFR 61 Subpart FF 61.357(d)(7)	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
	61.345(b)	Y		Visual inspection of container covers	61.345(b)	P/Q	Visual Inspection
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-502	P/A	Source test
VOC	BAAQMD 8-5-328.2	Y		tank concentration < 10,000 ppm as methane	BAAQMD 8-5-503	P/E (Each time emptied and degassed)	hydrocarbon detector

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 9-1-313.2	Y		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	BAAQMD Condition # 19466-1	P/A	Inlet/outlet Sampling of the Fuel Gas Scrubber and Sour Water Stripper Towers

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
				install a sulfur recovery plant or sulfuric acid plant			
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visual Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
SO_3, H_2SO_4	BAAQMD 6-330	Y		0.08 grain/dscf exhaust concentration of SO_3 and H_2SO_4, expressed as 100% H_2SO_4	BAAQMD Condition # 19466-8	P/SA	Source Test
H_2S				H_2S analyzer shall be installed on Flexsorb stock	BAAQMD Condition # 125-2	C	H_2S Analyzer

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

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 9-1-313.2	Y		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	BAAQMD Condition # 19466-1	P/A	Inlet/outlet Sampling of the Fuel Gas Scrubber and Sour Water Stripper Towers
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visual Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
SO_3, H_2SO_4	BAAQMD 6-330	Y		0.08 grain/dscf exhaust concentration of SO_3 and H_2SO_4, expressed as 100% H_2SO_4	BAAQMD Condition # 19466-8	P/SA	Source Test
H_2S				H_2S analyzer shall be installed on Flexsorb stock	BAAQMD Condition # 126-2	C	H_2S Analyzer

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 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD 9-10-502.1	C	CEM
Fuel Flow		Y	7/1/02	30.6 MM therms/year RFG (S-3) 14.9 MM therms/year RFG (S-4) Condition # 11030-7	BAAQMD 9-10-502.2	C	Fuel Flowmeter
NO_x	BAAQMD 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm NOx (dry, 3% O_2), operating day average	BAAQMD Condition #19466-14	C	CEM
NO_x	BAAQMD 9-10-304.1	N	7/1/02	CO Boiler emissions: 150 ppm (dry, 3% O_2), operating day average	BAAQMD 9-10-502.1	C	CEM
NO_x	BAAQMD Condition # 11030-3			NO_x emissions from abated sources shall not exceed 300 ppm NOx (dry, 3% O_2), Operating day average	BAAQMD Condition # 19466-14	C	CEM
O_2		Y	7/1/02	Correction to 3 % O_2	BAAQMD 9-10-502.1	C	CEM

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
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-15	C	Exhaust through main stack which has an opacity monitor (BAAQMD Condition # 19466-5)
Opacity	BAAQMD 6-304	Y		Ringelmann No. 2 for less than 3 minutes/hour during tube cleaning	BAAQMD Condition # 19466-15	C	Exhaust through main stack whichas an opacity monitor (BAAQMD Condition # 19466-5)
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-15	C	COM
Opacity	BAAQMD 6-302	Y		Opacity Limitation	BAAQMD 6-501 and 1-520.5	C	COM
Opacity		Y		Opacity Records and Reports	BAAQMD 6-502 and 1-522.8	P/M	Reports
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test
SO_2	BAAQMD 9-1-310.1	Y		SO_2 emission limit for FCCUs and Fluid Cokers (1000 ppmv)	BAAQMD 9-1-502; BAAQMD 1-520.5	C	SO_2 CEM

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
HAP	40 CFR 63 Subpart CC 63.643(a)(2)	Y		Reduce HAP by 98% or to 20 ppm @ 3% O_2	40 CFR 63 Subpart CC 63.644(a)(3) (large heaters exempt from monitoring)	N	N/A
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-15	C	COM
Opacity	BAAQMD 6-302	Y		Opacity Limitation	BAAQMD 6-501 and 1-520.6	C	Opacity CEM
Opacity		Y		Opacity Records and Reports	BAAQMD 6-502 and 1-522.8	P/M	Records
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-311	Y		$4.10\ P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test
SO_2	BAAQMD 9-1-310.1	Y		SO_2 emission limits for FCCUs and fluid cokers (1000 ppmv)	BAAQMD 9-1-502; BAAQMD 1-520.6	C	SO_2 CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-7, S-20, S-24, S-26, S-34, S-35 (F103, F104, F601, F104, F2905, F2906) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow		Y	7/1/02	20.15 MM therms/year (S-25); 40.56 therms/year combined for S-30, S-31, S-32, S-33	BAAQMD 9-10-502.2	C	Fuel Flowmeter
NO_x	BAAQMD 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU	BAAQMD 9-10-502	C	Alternative Compliance Plan
NO_x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU	BAAQMD 2- 6-503	C	Alternative Compliance Plan
O_2		N	7/1/02	Corrected to 3% O_2	BAAQMD 9-10-502.1	C	In-situ analyzer
CO	BAAQMD 9-10-305	N	7/1/02	400 ppmv CO (dry, 3% O_2), operating day average	BAAQMD Condition # 19466-10	P/SA	Source Test
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.2 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 2-6-503	N	None
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD 2-6-503	N	None
Fuel Flow	9-10-112	Y		90,000 therms/year	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A7 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-38, S-39 (SG703, SG2901) – STEAM GENERATORS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow		Y	7/1/02	14.02 MM therms/year each	BAAQMD 9-10-502.2	C	Fuel Flowmeter
NO_x	BAAQMD 9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average	BAAQMD 9-10-502	C	Alternative Compliance Plan
NO_x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD 2- 6-503	C	Alternative Compliance Plan
O_2		N	7/1/02	Corrected to 3% O_2	BAAQMD 9-10-502.1	C	In-situ analyzer
CO	BAAQMD 9-10-305	N	7/1/02	400 ppmv CO (dry, 3% O_2)	BAAQMD Condition # 19466-10	P/SA	Source Test
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A8 (1) Combustion
Applicable Limits and Compliance Monitoring Requirements
S-16, S-18 (ST-2101, ST-2101) - 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		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19176 Parts 1 & 2	P/E	Gas Flow Meters along with Visual Inspection and Records

Table VII – A8 (2) Combustion
Applicable Limits and Compliance Monitoring Requirements
S-17 (ST-1701) - 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		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19176 Parts 1 & 2	P/E	Visual Inspection and Records

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		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19176 Parts 1 & 2	P/E	Gas Flow Meter along with Visual Inspection and Records
H_2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H_2S concentration (applies to pilot gas only)	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas (pilot 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
CO	BAAQMD 9-10-305	Y	7/1/02	400 ppmv CO (dry, 3% O_2), operating day	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition # 10574-32	Y		28 ppmv CO (dry, 3% O_2), 8-hour average	BAAQMD 19466-14	C	CEM
Fuel Flow	BAAQMD 10574-37	Y		106 therms/year combined limit	BAAQMD 9-10-502.2; BAAQMD Condition # 10574-19	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) 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 # 10574-13 and 17	Y		100 ppmv, averaged over a 24-hr calendar day and 160 ppmv averaged over any 3-hr period	BAAQMD Condition # 10574-15	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
NO_x	BAAQMD 9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan
NO_x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD 19466-14	C	CEM
NO_x	BAAQMD Condition # 10574-31	Y		60 ppmv (dry, 3% O_2)	BAAQMD Condition # 10574-40	C	CEM
O_2		Y		Corrected to 3% O_2	BAAQMD 9-10-502; BAAQMD Condition #10574-40	C	In-situ analyzer
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
Opacity	BAAQMD Condition # 10574-21	Y		Ringelmann No. 1 or 20% opacity		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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
Total Reduced Sulfur	BAAQMD Condition # 10574-14	Y		51 ppmv of total reduced sulfur, average over any consecutive four quarter period	BAAQMD Condition # 10574-15	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 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD Condition # 19466-10	P/SA	Source Test
Fuel Flow	BAAQMD 14318-4	Y	7/1/02	200 MM Btu/hr; 185 MM Btu/calendar day	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) 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 # 14318-4	Y		Fuel gas H_2S concentration limited to 160 ppm	BAAQMD Condition # 14318-4	C	H_2S analyzer
NO_x	BAAQMD 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan

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 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD 19466-14	C	CEM
NO_x	BAAQMD Condition #14318-1	Y		40 ppm NO_x (dry, 3% O_2), 8-hour average	BAAQMD Condition #14318-2	C	CEM
O_2		Y	7/1/02	Corrected to 3% O_2	BAAQMD 9-10-502	C	In-situ analyzer
O_2		Y		Corrected to 3% O_2	BAAQMD Condition #14318-2	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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
Fuel Flow	Title V Permit, Table II A	Y	7/1/02	20.15 MM therms/day; 40.56 MM therm/day combined limit for S-30, S-31, S-32, S-33	BAAQMD 9-10-502.2	C	Fuel Flowmeter
NO_x	BAAQMD 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan
NO_x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU	BAAQMD 19466-14	C	CEM
O_2		Y	7/1/02	Corrected to 3% O_2	BAAQMD 9-10-502	C	CEM
CO	BAAQMD 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD Condition # 19466-10	P/SA	Source Test
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A13.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-36, S-48, S-56 – WASTE HEAT BOILERS (SG-701, SG-1031, SG-401)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQM D 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQM D 6-310	Y		0.15 grain/dscf		N	
FP	BAAQM D 6-310.3	Y		0.15 grains/dscf @ 6% O_2		N	

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 9-9-301.1	Y		55 ppmv @15% O_2 (dry) for refinery fuel gas	BAAQMD Condition # 19466-11	P/SA	Source Test
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-305	Y		Prohibition of nuisance fallout		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	

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 # 16386-1	Y		9 ppmv @15% O_2 (dry)	BAAQMD Condition # 16386-6	C	NOx CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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
NO_x	BAAQMD 9-9-301.3; BAAQMD Condition # 16386-2	Y		9 ppmv @15% O_2 (dry)	BAAQMD 9-9-501; BAAQMD Condition # 16386-6	C	NO_x CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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
CO	BAAQMD 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition # 9296-D3	Y		400 ppmv (dry, 3% O_2)	BAAQMD 19466-14	C	CEM
Fuel Flow	BAAQMD Condition #9296-D7	Y		218 MM Btu/hour	BAAQMD 9-10-502.2; BAAQMD Condition # 9296-D9	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) 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 9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan

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 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU	BAAQMD 19466-14	C	CEM
NO_x	BAAQMD Condition # 9296-D2	Y		30 ppmv (dry, 3% O_2) averaged over 12 month period	BAAQMD Condition # 9296-D8	C	CEM
O_2		Y		Corrected to 3% O_2	BAAQMD 9-10-502	C	In-situ analyzer
O_2		Y		Corrected to 3% O_2	BAAQMD Condition # 9296-D8	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
Total Reduced Sulfur	BAAQMD Condition # 9296-D4	Y		51 ppmv of total reduced sulfur, annualized daily average (calendar year)	BAAQMD Condition # 9296-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 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD 9-10-502	C	CEM
Fuel Flow	BAAQMD Title V permit, Table II A	Y	7/1/02	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) 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
NO_x	BAAQMD 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan
NO_x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD 19466-14	C	CEM

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
O_2		Y	7/1/02	Corrected to 3% O_2	BAAQMD 9-10-502	C	In-situ analyzer
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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	9-10-112	Y		90,000 therms/year	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
Tune up		Y		Small Unit Exemption: Tune every 12 months	BAAQMD 9-10-306.2	P/A	Tune-up per 9-10-605

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 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD 9-10-502	P/A	Source Test
Fuel Flow		Y	7/1/02	1.93 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)	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
NO_x	BAAQMD 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU, operating day average	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan
NO_x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average	BAAQMD 19466-14	C	CEM
NOx	BAAQMD Condition # 254 -1	Y		40 ppm (dry, 3% O_2)	BAAQMD Condition # 254-3	P/SA	Source Test
O_2		Y	7/1/02	No limit	BAAQMD 9-10-502	P/A	Source Test
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	

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
FP	BAAQM D 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

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 9-10-305	Y	7/1/02	400 ppmv (dry, 3% O_2)	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition # 10574-24	Y		28 ppmv (dry, 3% O_2), 8-hour average (0.02 lb/MMBtu)	BAAQMD 19466-14	C	CEM
Fuel Flow	BAAQMD Condition #10574-29	Y		28.908 MM therms/day	BAAQMD 9-10-502.2; BAAQMD Condition # 10574-19	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)	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 10574-13	Y		100 ppmv H_2S, averaged over a 24-hour calendar day and 160 ppm H_2S averaged over 3 hours	BAAQMD Condition # 10574-15	C	H_2S analyzer on fuel gas
NO_x	BAAQMD 9-3-303			125 ppm for gaseous fuels	Monitoring subsumed by 9-10-502 monitoring. See permit shield.	N	
NO_x	BAAQMD 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO_x / MMBTU	BAAQMD 9-10-502	C	CEM and Alternative Compliance Plan

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 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU	BAAQMD 19466-14	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 # 10574-23	Y		10 ppmv (dry, 3% O_2), 3-hour average (0.0118 lb/MMBtu)	BAAQMD Condition # 10574-27	C	CEM
O_2		Y		Corrected to #% O_2	BAAQMD 9-10-502; BAAQMD #10574-27	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
PM	BAAQMD Condition # 10574-21	Y		Ringelmann No. 1 or 20% opacity		N	
Total reduced sulfur	BAAQMD Condition # 10574-14	Y		51 ppmv, averaged over any four consecutive quarters	BAAQMD Condition # 10574-15	C	H_2S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

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 - 13	Y		50 ppmv (dry, 3% O_2), averaged over 8 hours	BAAQMD Condition # 16027-22	P/A	Source Test
Fuel Flow	BAAQMD 16027-18	Y		2,505,360 MM Btu/year	BAAQMD Condition # 16027-9	C	Fuel Flowmeter
H_2S	BAAQMD Condition # 16027-3	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 # 16027-5	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)	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 - 12	Y		9 ppmv (dry, 3% O_2),averaged over 3 consecutive hours	BAAQMD Condition # 16027-16	C	CEM
O_2		Y		Corrected to 3% O_2	BAAQMD Condition # 16027-16	C	In-situ analyzer

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visible Inspections
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
PM	BAAQMD Condition # 16027-10	Y		Ringelmann No. 1 or 20% opacity	BAAQMD Condition # 19466-3	P/M	Visible Inspections
Total Reduced Sulfur	BAAQMD Condition # 16027-4	Y		51 ppmv, averaged over any consecutive four-quarter period	BAAQMD Condition # 16027-5	C	H_2S analyzer on fuel gas

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
Fuel Sulfur Content	BAAQMD 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 18748-1	Y		Sulfur content of liquid fuel ≤ 0.05% by weight	Condition 18748-1	P/E	Diesel Fuel Certification by supplier for each lot
Hours of Operation	BAAQMD 9-8-330	N		<100 hours per calendar year for reliability testing	BAAQMD 9-8-530	C	Totalizing meter for hours of operation
Hours of Operation	BAAQMD Condition 18748	N		<100 hours per calendar year for reliability testing	Condition 18748-2	C	Totalizing meter for hours of operation
Hours of Operation	BAAQMD 9-8-330	N		<100 hours per calendar year for reliability testing	Condition 18748-3	P/M	Records
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-503	N	None
PM	BAAQMD 6-303	Y		Ringelmann No. 2 for > 3 minutes in any hour or equivalent opacity	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain/dscf	None	N	None
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 –TURBINE (COGEN PHASE I)
S-1032 - 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 9-9-301.3	Y		9 ppmv @ 15% O_2 (dry)	BAAQMD 9-9-501	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
SO_2	40 CFR 60 Subpart GG 60.333(a)	Y		0.015 percent by volume @ 15% O_2 (dry)	40 CFR 60 Subpart GG 60.335(b) and 60.335(c)(3)	P/D	Test Method 20
Sulfur	40 CFR 60 Subpart GG 60.333(b)	Y		0.8 percent by weight	40 CFR 60 Subpart GG 60.335(d)	P/D	ASTM Method D 3246-81
CO	BAAQMD Condition # 19177-12	Y		Commissioning Period: < 513.216 lb/calendar day	BAAQMD Condition # 19177-8	C	CEM and BAAQMD-approved calculation method
CO	BAAQMD Condition # 19177-18(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 # 19177-38	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 –TURBINE (COGEN PHASE I)
S-1032 - TURBINE (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 # 19177-19(c)	Y		Normal Operations: < 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177-38	C	CEM
Firing hours	BAAQMD Condition # 19177-10	Y		Commissioning Period: Firing hours without NO_x and CO abatement <250 hours	BAAQMD Condition # 19177-8	C	Data recorder
Fuel Flow	BAAQMD Condition # 19177-8	Y		Commissioning Period Fuel Flow Requirement	BAAQMD Condition # 19177-8	C	Fuel Flow Meter
Fuel flow	BAAQMD Condition # 19177-14	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 # 19177-37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177-15	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator <19,400 MM Btu/calendar day.	BAAQMD Condition # 19177-37	C	Fuel Flow Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 –TURBINE (COGEN PHASE I)
S-1032 - TURBINE (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 # 19177-16	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177-37	C	Fuel Flow Meter
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)	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 19177-19(g)	Y		Normal Operations: Refinery fuel gas H_2S <160 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177-35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 36	P/Q	Report
NH_3	BAAQMD Condition # 19177-18(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 # 19177-21	P/E	source test
NO_x	BAAQMD Condition # 19177-12	Y		Commissioning Period: < 360.34 lb/calendar day	BAAQMD Condition # 19177-8	C	CEM and BAAQMD-approved calculation method

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 –TURBINE (COGEN PHASE I)
S-1032 - 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 # 19177-18(a)	Y		Normal Operations: 2.5 ppmv (dry, 15% O_2), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177-38	C	CEM
NO_x	BAAQMD Condition # 19177-19(a) & (b)	Y		Normal Operations: < 7.29 lb/hour and 2.5 ppmv (dry, 15% O_2), averaged over any 3-clock hours	BAAQMD Condition # 19177-38	C	CEM
PM_{10}	BAAQMD Condition # 19177-19(h)	Y		Normal Operations: < 4.65 lb/hour 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 # 19177-23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177-39	P/Q, then A if low variability	Source test
POC (as CH_4)	BAAQMD Condition # 19177-18(d) for firing natural gas exclusively and 19(f)	Y		Normal Operations: < 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177-23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177-39	P/Q, then A if low variability	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1030 –TURBINE (COGEN PHASE I)
S-1032 - TURBINE (COGEN PHASE II)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
SO_2	BAAQMD Condition # 19177-12	Y		Commissioning Period: < 516 lb/calendar day	BAAQMD Condition # 19177-8	C	CEM and BAAQMD-approved calculation method
SO_2	BAAQMD Condition # 19177-19(g)	Y		Normal Operations: < 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177-23 and 25	P/D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM), including SO_3 and ammo-nium sulfates	BAAQMD Condition # 19177-20	Y		Normal Operations: < 7 tons in any consecutive four quarters	BAAQMD Condition # 19177-23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177-40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177-18(e) - SO_2 & 18(f) -PM_{10}	Y		Normal Operations: Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177-35	C	Fuel gas monitor
Total reduced sulfur	BAAQMD Condition # 19177-19(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 # 19177-35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177-36	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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 # 19177-12	Y		Commissioning Period: < 513.216 lb/calendar day	BAAQMD Condition # 19177-8	C	CEM and BAAQMD-approved calculation method
CO	BAAQMD Condition # 19177-18(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 # 19177-38	C	CEM
CO	BAAQMD Condition # 19177-19(c)	Y		Normal Operations: < 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177-38	C	CEM
Firing hours	BAAQMD Condition # 19177-10	Y		Commissioning Period: Firing hours without NO_x and CO abatement <250 hours	BAAQMD Condition # 19177-8	C	Data recorder
Fuel Flow				Commissioning Period	BAAQMD Condition # 19177-8	C	Fuel Flow Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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 # 19177-14	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 # 19177-37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177-15	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 19,400 MM Btu/calendar day.	BAAQMD Condition # 19177-37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177-16	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177-37	C	Fuel Flow Meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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)	40 CFR 60 Subpart J 60.105(a)(4)	C	H_2S analyzer on fuel gas
H_2S	BAAQMD Condition # 19177-19(g)	Y		Normal Operations: Refinery fuel gas H_2S <160 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177-35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177-36	P/Q	Report
NH_3	BAAQMD Condition # 19177-18(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 # 19177-2	P/A	Source test
NO_x	BAAQMD 9-3-303			125 ppm for gaseous fuels	Monitoring subsumed by BAAQMD Condition #19177-38 monitoring. See permit shield.	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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	40 CFR 60 Subpart Db 60.44b(e); 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
NOX					40 CFR 60 Subpart Db 60.46b(f)(1) and 60.46b(h)(1)	P/A	Source Test
					40 CFR 60 Subpart Db 60.46b(h)(2)	P/A	Source Test
NO_x	BAAQMD Condition # 19177-12	Y		Commissioning Period: < 360.34 lb/calendar day	BAAQMD Condition # 19177-8	C	CEM and BAAQMD-approved calculation method
NO_x	BAAQMD Condition # 19177-18(a)	Y		Normal Operations: 2.5 ppmv (dry, 15% O_2), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177-38	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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 # 19177-19(a) & (b)	Y		Normal Operations: < 7.29 lb/hour and 2.5 ppmv (dry, 15% O_2), averaged over any 3-clock hours	BAAQMD Condition # 19177-38	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
PM_{10}	BAAQMD Condition # 19177-19(h)	Y		Normal Operations: < 4.65 lb/hour 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 # 19177-23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177-39	P/Q, then A if low variability	Source test
POC (as CH_4)	BAAQMD Condition # 19177-18(d) for firing natural gas	Y		Normal Operations: < 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177-23 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 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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
	natural gas exclusively and 19(f)				BAAQMD Condition # 19177-39	P/Q, then A if low variability	Source test
SO_2	BAAQMD Condition # 19177-12	Y		Commissioning Period: < 516 lb/calendar day	BAAQMD Condition # 19177-8	C	CEM and BAAQMD-approved calculation method
SO_2	BAAQMD Condition # 19177-19(g)	Y		Normal Operations: < 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177-23 and 25	D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM), including SO_3 and ammonium sulfates	BAAQMD Condition # 19177-20	Y		Normal Operations: < 7 tons in any consecutive four quarters	BAAQMD Condition # 19177-23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177-40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177-18(e) - SO_2 & 18(f) -PM_{10}	Y		Normal Operations: Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177-35	C	Fuel gas monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A22.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1031 –HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)
S-1033 -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
Total reduced sulfur	BAAQMD Condition # 19177-19(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 # 35	C	H_2S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition #19177-36	P/Q	Report

Table VII – B1 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-8, S-10, S-12 (FIL-2701, TK-2303, CYC-1901) – COKE TRANSPORT /CATALYST RAILCAR UNLOADING/LIME SILO

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	BAAQMD Condition # 19466-3	P/M	Visible Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test

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
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visible Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test
Thruput	BAAQMD Condition # 9897-1	Y		Annual throughput limit of 292 tons activated carbon	BAAQMD Condition # 9897-2	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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	

VII. Applicable Limits and Compliance Monitoring Requirements

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
FP	BAAQM D 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr		N	

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visible Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test

Table VII – B5 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-209 (LD-209) – METHANOL 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 Deliveries	BAAQMD Condition #9296-B4	Y		2920 trucks per rolling 12-month period	BAAQMD Condition #9296-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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visible Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test
Thruput	BAAQMD Condition # 12727-1	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727-5	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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-3	P/M	Visible Inspection
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition #19466-6	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

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
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-9	P/A	Source Test
Thruput	BAAQMD Condition # 12727-2	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727-5	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
				None	None	N	N/A

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	None	N	

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	None	N	

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 Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQM D 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQM D 6-310	Y		0.15 grain/dscf		N	
FP	BAAQM D 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
FP	BAAQM D 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr		N	
VOC	BAAQM D 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis		N	

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	BAAQM D 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
FP	BAAQM D 6-310	Y		0.15 grain/dscf		N	
FP	BAAQM D 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N	
FP	BAAQM D 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr		N	

VII. Applicable Limits and Compliance Monitoring Requirements

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
VOC	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis		N	

Table VII – C4 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N (Vented to fuel gas stream - BAAQMD Condition # 19466-13)	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N (Vented to fuel gas stream - BAAQMD Condition # 19466-13)	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2		N (Vented to fuel gas stream - BAAQMD Condition # 19466-13)	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C4 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
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr		N (Vented to fuel gas stream - BAAQMD Condition # 19466-13)	
VOC	BAAQMD 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis		N (Vented to fuel gas stream - BAAQMD Condition # 19466-13)	

Table VII – C4 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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466-2c	P/A	Source Test
FP	BAAQMD 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466-6	P/A	Source Test
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O_2	BAAQMD Condition # 19466-7	P/A	Source Test
FP	BAAQMD 6-311	Y		4.10 $P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition # 19466-7	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C4 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
VOC	BAAQMD 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	BAAQMD 2-6-503	P/A	Source Test

Table VII – D 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
Hex Cr	BAAQMD 11-10-302.2	Y		0.15 mg/liter of circulating cooling water		N	

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

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 8-7-301.10	N		98% or highest vapor recovery rate specified by CARB		N	
VOC	BAAQMD Regulation 8-7-313.1	N		Fugitives ≤ 0.42 lb/1000 gallon		N	
VOC	BAAQMD Regulation 8-7-313.2	N		Spillage ≤ 0.42 lb/1000 gallon		N	
VOC	BAAQMD Regulation 8-7-313.3	N		Liquid Retain + Spitting ≤ 0.42 lb/1000 gallon		N	
VOC	None	N		None	BAAQMD Regulation 8-7-503	P/M	Records
VOC	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N	

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
Dry Dock Leak Test	BAAQMD Condition # 98-9	Y		Vessel leak test at 80% of lowest relief valve set pressure every 3 years in dry dock	BAAQMD Condition # 98-9	P/Every 3 Years	Record
Fugitive Emissions Inspection	BAAQMD Condition # 98-11	Y		Fugitive emissions inspection of all above-deck equipment	BAAQMD Condition # 98-11	P/Q	On-board Method 21 inspection
Leak Test	BAAQMD Condition # 1709-10	Y		<5% leakage rate for vessels loaded more than 2 times/year	BAAQMD Condition # 1709-9	Every 36 months for each vessel loaded more than 2 times/year	Dry-dock pressure test
Leak Test	BAAQMD Condition # 1709-12	Y		10,000 ppm leak test on above-deck equipment for vessels loaded more than 2 times/year	BAAQMD Condition # 1709-12	Every 10th load for each vessel loaded more than 2 times/year	On-board Method 21 inspection
Loading Pressure	BAAQMD Condition # 98-7	Y		Highest vessel lightering pressure < 80% at lowest relief valve set pressure	BAAQMD Condition # 98-8	C	Pressure recorder
Loading Pressure	BAAQMD Condition # 1709-8	Y		Vessel loading pressure <80% of lowest relief valve set pressure	BAAQMD Condition # 1709-6	C	Pressure recorder
PRU Fugitives Survey	BAAQMD Condition # 98-12	Y		PRU fugitive inspection at 20% and 60% of cargo transfer	BAAQMD Condition # 98-12	Each lightering event	On-board Method 21 inspection

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
VOC	BAAQMD Condition # 98-5	Y		Lightering emissions for crude deliveries to Benicia < 48 tons per year	BAAQMD Condition # 98-2, 98-3, and 98-4	P/Q	Report
VOC	BAAQMD 8-44-301.1; BAAQMD Condition # 1709-3	Y		POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	BAAQMD Condition # 1709-5	C	Parametric monitor
VOC	BAAQMD 8-44.301.2; BAAQMD Condition # 1709-3	Y		Controlled ≥ 95% weight	BAAQMD Condition # 1709-5	C	Parametric monitor
VOC	BAAQMD Condition # 1709-1	Y		Annual mass limit for Mogas loading (43.4 tons/yr excluding shore-side fugitive emissions)	BAAQMD Condition # 1709-7	P/Q	Report

Table VII – G1 Solvent Cleaning
Applicable Limits and Compliance Monitoring Requirements
S-177 - SOLVENT CLEANING OPERATIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G1 Solvent Cleaning
Applicable Limits and Compliance Monitoring Requirements
S-177 - SOLVENT CLEANING OPERATIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC		N		Solvent vapor records for solvents with IBP less than 248 F (BAAQMD 8-16-118)	Regulation 8-16-501 & SIP Regulation 8-16-501	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H1.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-151 (WWWEIGHTSTR-2001) – 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 60.355(k)(1)	P/E	Sampling / Records
CPS and ISF Bypasses	8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD 8-8-501	P/E	Sampling / Records

Table VII – H1.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-156 (WWEIGHTSTR-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 60.355(k)(1)	P/E	Sampling / Records
CPS and ISF Bypasses	8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD 8-8-501	P/E	Sampling / Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H2.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-154, S-155, S-169, S-238 – 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	61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

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	61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H3 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-161 – SEWER PIPELINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				None	None	N	N/A

Table VII – H4.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-188 – 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 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	BAAQMD Condition # 19466-2a	P/A	Source Test
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-302.4	P/SA	Visual Inspection
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(f)	Y		No visible openings on closed vent system	40 CFR 61 61.349(f)	P/Q	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H4.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-194, S-195 – 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 # 13319-2	Y		50 ppm (3% O_2, dry)	BAAQMD Condition # 13319-8	P/A	Source Test
NMHC Limit	BAAQMD Condition # 13319-15	Y		Total combined NMHC emissions from WWEIGHTP (A-37) and diversion tanks (A-36) < 15 lb/day, averaged over the month	BAAQMD Condition # 13319-17	P/M	Records
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319-18	C	CEM and flow meter
NOx	BAAQMD Condition # 13319-1	Y		25 ppm (3% O_2, dry)	BAAQMD Condition # 13319-8	P/A	Source Test
Outlet Temp	BAAQMD Condition # 13319-4	Y		Thermal Oxidizer: 1400 F minimum outlet temperature	BAAQMD Condition # 13319-5	C	Temperature measuring device
VOC	BAAQMD 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	BAAQMD Condition # 13319-5	C	Temperature measuring device
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-302.4	P/SA	Visual Inspection
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H4.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-194, S-195 – 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(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
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 # 13319-9	Y		3000 gpm	BAAQMD Condition # 13319-17	C	Records

Table VII – H5.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-189 – 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 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-307.1	P/SA	Visual Inspection
VOC	BAAQMD 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight.	BAAQMD Condition # 19466-2a	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H5.1 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-189 – 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 61.347(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(f)	Y		No visible openings on closed vent system	40 CFR 61 61.349(f)	P/Q	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H5.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-197, S-198 – 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 # 13319-2	Y		50 ppm (3% O_2, dry)	BAAQMD Condition # 13319-8	P/A	Source Test
NMHC Limit	BAAQMD Condition # 13319-15	Y		Total combined NMHC emissions from WWEIGHTP (A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 13319-17	P/M	Records
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319-18	C	CEM and flow meter
NOx	BAAQMD Condition # 13319-1	Y		25 ppm (3% O_2, dry)	BAAQMD Condition # 13319-8	P/A	Source Test
Outlet Temp	BAAQMD Condition # 13319-4	Y		Thermal Oxidizer: 1400 F	BAAQMD Condition # 13319-5	C	Temperature measuring device
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices.	BAAQMD 8-8-307.1	P/M	Visual Inspection
VOC	BAAQMD 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight.	BAAQMD Condition # 13319-5	C	Temperature measuring device
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H5.2 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-197, S-198 – 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(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
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 # 13319-9	Y		3000 gpm	None	C	Waste Water Flow Meter

Table VII – H6 Wastewater
Applicable Limits and Compliance Monitoring Requirements
S-192 (TK-2052) – WASTE WATER 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 8-5-117	Y		True vapor pressure less than or equal to 0.5 psia. Records of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H7
Applicable Limits and Compliance Monitoring Requirements
S-217 (TK-791N), S-218 (TK-424S), AND S-219 (TK-131S) – 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 8-8 Organic Compounds—WASTEWATER (OIL/WATER SEPARATORS) Exempt per 8-8-113						

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 8-18-301	Y		General equipment leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	None	P/Q	Method 21 Inspection
POC	BAAQMD 8-18-300	Y		Valves, Pumps, Compressors, Connectors, PRDs, and General Equipment	BAAQMD 8-18-401.5	P/E (24 hrs after repair/mini-mization)	Method 21 Inspection
POC	BAAQMD 8-18-302	Y		Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.2 or 8-18-404	Q (footnote a)	Method 21 Inspection
POC	BAAQMD 8-18-302	Y		Inaccessible Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.3	P/A	Method 21 Inspection
POC	BAAQMD 8-18-303	Y		Pump and compressor leak ≤ 500 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 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 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.6	Every 5 years (footnote b)	Method 21 Inspection
POC	BAAQMD 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
POC	BAAQMD 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD 8-18-401.2 & 8-18-401.7	P/Q	Method 21 Inspection
POC	BAAQMD 8-18-305	Y		Inaccessible PRDs leak < 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD 8-18-401.3	P/A	Method 21 Inspection
POC	BAAQMD 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection
POC	BAAQMD 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	BAAQMD 8-18-502.4	P/Q	Report
POC	BAAQMD 8-18-306.2	Y		Awaiting repair Valves ≤ 0.5% Pressure Relief ≤ 1% Pumps and Compressors ≤ 1%	BAAQMD 8-18-502.4	P/Q	Report
POC	BAAQMD 8-18-307	Y		Equipment liquid leaks minimize in 24 hours, repair in 7 days	None	P/E	Records

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		Y		Pumps and Compressors Evidence of Leak	BAAQMD 8-18-403	P/D	Visual Inspection
POC	BAAQMD 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 8-28-304.1	N		Pressure Relief Device with reportable releases in 5-year period.	BAAQMD 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 8-28-304.2	N		After 2nd release in 5 years; Vent Pressure Relief Devices to an Abatement Device	BAAQMD 8-28-304.2	P/E (1 year after release)	
POC		N		Pressure Relief Device Release Event Reporting	BAAQMD 8-28-401	P/E (1 working day and 30 days after release)	Report
POC	BAAQMD 8-18-305	N		Pressure Relief Device with reportable releases $\leq$ 500 ppm	BAAQMD 8-28-402 & 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection w/Report
POC	BAAQMD 11-7-213			Pumps leak $\leq$ 10,000; or 1st repair attempt 5 day, repaired 15 days	BAAQMD 11-7-501	P/M	Method 21 Inspection
POC	BAAQMD 11-7-213			Pump Leak Indicated by Dripping Liquid	BAAQMD 11-7-401	P/W	Visual 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 11-7-310.4			Pumps under "Delay of Repair" repaired within 6 months.	None	P/E	Records
POC	BAAQMD 11-7-213 and 11-7-307			Valves leak ≤ 10,000; or 1st repair attempt 5 day, repaired 15 days	BAAQMD 11-7-501	P/M	Method 21 Inspection
POC	BAAQMD 11-7-213			Valves leak < 10,000 ppm 2 successive months w/o leaking.	BAAQMD 11-7-307.1	P/Q (if criteria met)	Method 21 Inspection
POC	BAAQMD 11-7-213			Valves leak < 10,000 ppm 2 successive quarters w/< 2% leaking	BAAQMD 8-18-302	P/SA (if criteria met) (note c)	Method 21 Inspection
POC	BAAQMD 11-7-213			Valves leak < 10,000 ppm 5 successive quarters w/< 2% leaking.	BAAQMD 11-7-313.3	P/A (if criteria met) (note c)	Method 21 Inspection
POC	BAAQMD 11-7-213			Pressure Relief Valves (liquid), flanges, connectors; leak ≤ 10,000; or 1st repair attempt 5 day, repaired 15 days	BAAQMD 8-18-304	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection
POC				Monitoring and Repair Reporting	BAAQMD 11-7-403	P/SA	Report
POC	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	60.482-2 (a)(1)	P/M	Method 21 Inspection
POC	60.482-2 (b)(2)	Y		LL Pump leak Indicated by dripping liquid	60.482-2 (a)(2)	P/W	Visual 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	60.482-2(e)	Y		Pump designated for "No detectable emissions" pursuant to 60.486(e), < 500 ppm	60.482-2(e)(3)	P/A	Method 21 Inspection
POC	60.482-3(d)	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both	60.482-3 (e)(1)	C or P/D	Sensor with audible alarm or checked daily
POC	60.482-3(i)	Y		Compressor designated for "No detectable emissions" pursuant to 60.486(e), < 500 ppm	60.482-3(i)(2)	P/A	Method 21 Inspection
POC	60.482-4(a)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm		P/Q	Method 21 Inspection
POC	60.482-4(b)(1)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm after a pressure release event	60.482-4(b)(2)	P/E (5 days)	Method 21 Inspection
POC	60.482-7(b) 60.482-7(d)(i)	Y		Valve leak < 10,000 ppm or 1st repair attempt 5 day, repaired 15 days	60.482-7(a)	P/M	Method 21 Inspection
POC	60.482-7(b)	Y		Valve leak < 10,000 ppm; 2 successive months	60.482-7(c)(i)	P/Q	Method 21 Inspection
POC	60.482-7(f)	Y		Valve designated "No detectable emissions" leak < 500 ppm	60.482-7 (f)(3)	P/A	Method 21 Inspection
POC	60.482-7(h)	Y		Valve designated "Difficult to monitor (up to 3% of total valves)" leak < 500 ppm	60.482-7 (h)(3)	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	60.482-8(b)	Y		Pumps and Valves (heavy liquid), Pressure Relief Devices (liquid), Flanges, Connectors leak < 10,000 ppm	60.482.8(a)	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection to confirm leak
POC	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	60.482-10 (f)(1)(ii)	P/A	Visual Inspection (hard-pipe systems)
POC	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]	60.483-2(b)(2) (footnote c)	P/SA (if criteria are met)	Method 21 Inspection
POC	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]	60.483-2(b)(3) (footnote c)	P/A (if criteria are met)	Method 21 Inspection
				SOCMI NSPS Fugitives I/M Program	60.487(d) and 60.487(f)	P/SA	Report
40 CFR 61; Subpart FF (Benzene Waste NESHAPS)							

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	61.343 (a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	61.343 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	63.345 (a)(1)(i)	Y		Container fittings leak ≤ to 500 ppm	63.345 (a)(1)(i)	P/A	Method 21 Inspection
POC	61.347 (a)(1)(i)(A)	Y		O/W Separator fittings leak ≤ 500 ppm	61.347 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	61.349 (a)(1)(i)	Y		Closed-vent systems <500 ppm above background	61.349 (a)(1)(i)	P/A	Method 21 Inspection

Footnotes to Table VII-I

[a] Valves are inspected pursuant to BAAQMD-approved Alternative Inspection Schedule that satisfies the requirements of 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 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 11-7-313 alternative screening schedules for valves are analogous to the Valero Alternative Inspection Schedule (see footnote "a") with two exceptions: 60.483-2 uses a leak definition of 10,000 ppm VOC rather than 100 ppm TOC, and 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, 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 11-7 must *individually* comply with BAAQMD Rule 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 11-7 are effectively less stringent than the Valero Alternative Inspection Schedule.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J1
Applicable Limits and Compliance Monitoring Requirements
S-57 (TK-1701) – EXTERNAL FLOATING-ROOF TANK; 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 FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405, 8-5-404.2.1	P/A	inspection report
VOC	BAAQMD 8-5-328.2	Y		Concentration of < 10,000 ppm as methane after cleaning	8-5-503	P/E	Portable hydrocarbon detector
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 – J1
Applicable Limits and Compliance Monitoring Requirements
S-57 (TK-1701) – EXTERNAL FLOATING-ROOF TANK; 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 Permit	**PERMIT CONDITIONS**						
VOC	COND ID# 8564-1	Y		Tank shall not be heated while storing "light" crude oil.	COND ID# 8564-1	P/E	Record
Vapor Pressure	COND ID# 8564-2	Y		Maximum vapor pressure of material stored in TK 1701 shall not exceed 3.5 psi.	COND ID# 8564-2	P/E	Record

Table VII – J2
Applicable Limits and Compliance Monitoring Requirements
S-58 (TK-1702) – 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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J2
Applicable Limits and Compliance Monitoring Requirements
S-58 (TK-1702) – 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 8-5-328.2	Y		Concentration of < 10,000 ppm as methane after cleaning	8-5-503	P/E	Portable hydrocarbon detector
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 – J3
Applicable Limits and Compliance Monitoring Requirements
S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706), S-86 (TK-1758)
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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J3
Applicable Limits and Compliance Monitoring Requirements
S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706), S-86 (TK-1758)
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 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Concentration of < 10,000 ppm as methane after cleaning	8-5-503	P/E	Portable hydrocarbon detector
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 – J4
Applicable Limits and Compliance Monitoring Requirements
S-63 (TK-1711), S-66 (TK-1714), S-68 (TK-1716)
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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/A	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.3, 8-5-404.1	5 yr interval	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.3 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Concentration of < 10,000 ppm as methane after cleaning	8-5-503	P/E	Portable hydrocarbon detector
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-74 (TK-1734), 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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Concentration of < 10,000 ppm as methane after cleaning	8-5-503	P/E	Portable hydrocarbon detector
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 – J5
Applicable Limits and Compliance Monitoring Requirements
S-64 (TK-1712), S-73 (TK-1733), S-74 (TK-1734), 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)(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 – J6
Applicable Limits and Compliance Monitoring Requirements
S-72 (TK-1720), 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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Concentration of < 10,000 ppm as methane after cleaning	8-5-503	P/E	Portable hydrocarbon detector
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 – J6
Applicable Limits and Compliance Monitoring Requirements
S-72 (TK-1720), 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
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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/A	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.3, 8-5-404.1	5 yr interval	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.3 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
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 – 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 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval for "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
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 – 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval with "zero-gap" secondary seal	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval with "zero-gap" secondary seal	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	inspection report
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/M	Record
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

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	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**						
NOx, CO, POC, SO2, PM10	COND ID# 10797-1	Y		The total release of emissions from the S-207 project for the delivery and storage of MTBE, which includes the cargo ships and tugs in District waters, shall not exceed in any rolling 365 consecutive day period the following limits: NOx 36.7 tons CO 3.7 tons POC 8.1 tons SO2 9.5 tons PM10 1.6 tons	COND ID# 10797-8	P/D	Records of MTBE deliveries including MTBE throughput and ship and barge data as specified in BAAQMD Condition ID# 10797-8.
POC	COND ID# 10797-2	Y		The total release of POC emissions from the S-207 MTBE project shall not exceed 140 pounds in any rolling 24 consecutive hour period.	COND ID# 10797-9	On the day of MTBE delivery and each day of MTBE transfer from the cargo carrier to S-207	Calculate total POC emissions from the S-207 project. Summarize monthly.

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	COND ID# 10797-9	Y		Report of daily total POC emissions from the S-207 project.	COND ID# 10797-9	P/Q within 10 days of close of quarter	Report
Material Stored	COND ID# 10797-4	Y		The S-207 External roof storage tank shall store MTBE and/or mogas only.	COND ID# 10797-7	P/D	Record
Throughput	COND ID# 10797-5	Y		The total throughput of MTBE at S-207 shall not exceed 5,800,000 barrels in any rolling 365 consecutive day period.	COND ID# 10797-7	P/D	Record
Throughput	COND ID# 10797-6	Y		The total throughput of mogas at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period.	COND ID# 10797-7	P/D	Record

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 8-5-311.2, 8-5-321.1	Y		Internal visual inspection from viewports on fixed roof; and	BAAQMD 8-5-403	P/A	visual inspection
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers			

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
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.2 8-5-404.1	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Internal inspection every 10 years	Inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	N	Record
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**						
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J11
Applicable Limits and Compliance Monitoring Requirements
S-87 (TK-1759)
INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL; 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-311.2, 8-5-321.1	Y		Internal visual inspection from viewports on fixed roof; and	BAAQMD 8-5-403	P/A	Visual inspection
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers			
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.2 8-5-404.1	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standards; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Internal inspection every 10 years	Inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/M	Record
NONE	**40 CFR 63 Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.**						

Table VII – J12
Applicable Limits and Compliance Monitoring Requirements
S-88 (TK-1760), S-89 (TK-1761), S-90 (TK-1762), S-91 (TK-1763)
INTERNAL FLOATING ROOF TANKS WITH SECONDARY SEALS; 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J12
Applicable Limits and Compliance Monitoring Requirements
S-88 (TK-1760), S-89 (TK-1761), S-90 (TK-1762), S-91 (TK-1763)
INTERNAL FLOATING ROOF TANKS WITH SECONDARY SEALS; 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.2 8-5-404.1	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.2 8-5-404.2.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-311.2, 8-5-321.1, 8-5-322.1	Y		Internal visual inspection from viewports on fixed roof	BAAQMD 8-5-403	P/A	visual inspection
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standards; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Internal inspection every 10 years	Inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/M	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 – 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.2 8-5-404.1	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.2 8-5-404.2.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-311.2, 8-5-321.1, 8-5-322.1	Y		Internal visual inspection from viewports on fixed roof	BAAQMD 8-5-403	P/A	visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Internal inspection every 10 years	Inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
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

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	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
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	COND ID# 9296-1	Y		The total throughput shall not exceed 575,000 barrels of methanol in any rolling 12 consecutive month period.	COND ID# 9296-6	P/M	Records of monthly and annual tank throughputs

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
POC	COND ID# 9296-2	Y		Total POC emissions including fugitive POC emissions shall not exceed 0.87 tons in any rolling 12 consecutive month period.	COND ID# 9296-6	P/M	Records of monthly and annual tank throughputs
					COND ID# 9296-3	P/M	Fugitive inspection and maintenance program
Storage	COND ID# 9296-5	Y		The S-210 internal floating roof tank shall only store methanol unless written authorization is received from the APCO allowing a change.	COND ID# 9296-5	P/E	Records of material stored

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
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD 8-5-311.3	Y		Tank control device standards; includes 95% abatement efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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 – J15
Applicable Limits and Compliance Monitoring Requirements
S-65 (TK-1713), S-69 (TK-1717), S-70 (TK-1718), S-71 (TK-1719)
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 8-5-117	Y		True vapor pressure less than or equal to 0.5 psia. Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/M	Record
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 – 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD 8-5-311.3	Y		Tank control device standards; includes 95% efficiency requirement.	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standards; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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 – 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 8-5-311.3	Y		Tank control device standards; includes 95% efficiency requirement.	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standards; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector

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		Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
	COND ID# 7559-1	Y		VOC emissions emitted from the spent acid tank (S-133) shall be routed to the flare gas recovery header (S-9).	None	P/A	Visual Inspection and Record

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC		Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Record
VOC	BAAQMD 8-5-311.3	Y		Tank control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
NSPS Kb	**40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels**						

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
VOC	40 CFR 60 NSPS Kb 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	None	P/M	Method 21
VOC	40 CFR 60 NSPS Kb 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	40 CFR 60 NSPS Kb 60.113b(c)(2)	As approved (continuous)	Specified parameter (tank pressure)
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 – 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-102 (TK-1792), 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD 8-5-117	Y		True vapor pressure less than or equal to 0.5 psia. Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS**						
Vapor Pressure	BAAQMD 8-5-117	Y		True vapor pressure less than or equal to 0.5 psia. Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Lab Test and Record
NONE	**40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.**						

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
VOC	BAAQMD 8-5-303	Y		Record of liquid stored and true vapor pressure.	BAAQMD 8-5-501	P/M	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/M	Record
BAAQMD Permit	**Permit Condition**						
VOC	COND ID# 76003-1	Y		Organic emissions from filling the tank are to be under 4 lb/hr	COND ID# 76003-1	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**						
VOC	BAAQMD 8-5-303	Y		Record of liquid stored and true vapor pressure.	BAAQMD 8-5-501	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 – 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-171, S-180, 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**						
VOC	BAAQMD 8-5-301	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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 – 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	COND ID# 13045-1	Y		Throughput shall not exceed 15,000 galllons during any rolling 12 consecutive month period	COND ID# 13045-2	P/M	Record

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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.**						
BAAQMD Permit	**PERMIT CONDITIONS**						

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
VOC	COND ID# 896-2	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).	COND ID# 896-3	P/M	Record

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	COND ID# 18422-1	Y		Total liquid throughput shall not exceed 102,000 gallons during any consecutive 12-month period (Cumulative Increase)	COND ID# 18422-3	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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD 8-5-301	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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.**						
BAAQMD Permit	**PERMIT CONDITIONS**						
Throughput	COND ID# 9584-1	Y		Throughput shall not exceed 10 kgals in any rolling 12 consecutive months	COND ID# 9584-2	P/M	Record

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS**						
VOC	BAAQMD 8-5-303	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	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 – J29
Applicable Limits and Compliance Monitoring Requirements
S-121 (D-807), S-142 (TK-103), S-144 (TK-5013), 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 8-5-117	Y		True vapor pressure less than or equal to 0.5 psia. Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Lab Tests and 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.**						

Table VII – J30
Applicable Limits and Compliance Monitoring Requirements
S-230 (TK-4460) – EXEMPT FIXED ROOF TANK WITH NSPS SUBPART KB 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 8-5-117	Y		True vapor pressure less than or equal to 0.5 psia. Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Lab Tests and Record
NSPS Kb	**40 CFR 60 Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries RECORDKEEPING ONLY**						
Vapor pressure	40 CFR 60 NSPS Kb 60.110b(c)	Y		True vapor pressure less than 3.5 kPa.	40 CFR 60 NSPS Kb 60.116b(b)	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

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record

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 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
PM	BAAQMD 6-305	Y		Prohibition of nuisance fallout		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval with "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval with "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-404.2.1	P/A	measurement and visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	After each tank seal inspection	Inspection report
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Record
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), 60.112b(a)(2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a), 60.113b(b)(6)	Each time emptied & degassed	visual inspection

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), 60.113b(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a), 60.113b(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351(a), 60.113b(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a), 60.113b(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), S-67 (TK-1715)
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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.1	10 yr interval with "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1, 8-5-404.1	10 yr interval with "zero-gap" secondary seals	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-404.2.1	P/A	measurement and visual 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), S-67 (TK-1715)
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		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Ater each tank seal inspection	Inspection report
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Record
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), 60.112b(a)(2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a), 60.113b(b)(6)	Each time emptied & degassed	visual inspection
VOC	63.647(a), 61.351(a), 60.113b(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a), 60.113b(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351(a), 60.113b(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a), 60.113b(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-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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-311.2, 8-5-321.1, 8-5-322.1	Y		Internal visual inspection from viewports on fixed roof	BAAQMD 8-5-403	P/A	visual inspection
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Internal inspection every 10 years	Inspection report
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J34
Applicable Limits and Compliance Monitoring Requirements
S-101 (TK-1791), 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), 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), 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), 60.113b (a)(1), 60.113b (a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a), 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), 60.113b (a)(1), 60.113b (a)(4)	Y		Secondary rim-seal standards	63.647(a), 61.351(a), 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), 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a), 60.113b(a)(2)	P/A	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J35
Applicable Limits and Compliance Monitoring Requirements
S-103 (TK-1793)
INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL – 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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS**						
VOC	BAAQMD 8-5-311.2, 8-5-321.1	Y		Internal visual inspection from viewports on fixed roof; and	BAAQMD 8-5-403	P/A	Visual inspection
VOC	BAAQMD 8-5-320	Y		Deck fitting closure standards; includes gasketed covers			
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.2	Internal inspection every 10 years	measurement and visual inspection
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement.	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Report on seal condition and gap measurements	BAAQMD 8-5-404, 8-5-405	Internal inspection every 10 years	Inspection report
VOC	BAAQMD 8-5-304.2	Y		Record of liquid stored and true vapor pressure range.	BAAQMD 8-5-501	P/E	Record
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), 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), 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J35
Applicable Limits and Compliance Monitoring Requirements
S-103 (TK-1793)
INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL – 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), 60.113b (a)(1), 60.113b (a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a), 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), 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a), 60.113b(a)(2)	P/A	visual inspection

Table VII – J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (D-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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-311.3	Y		Control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (D-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
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)(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 CARBON CANISTERS**						
VOC	COND ID# 11888-10	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	COND ID# 11888-11 and 11888-16	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	COND ID# 11888-12	P/M	Record
VOC	COND ID# 11888-13	Y		Tank PRV leak tightness standard (< 500 ppmw)	COND ID# 11888-13	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)(A)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(A)	P/A	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (D-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)(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	COND ID# 11888 (1)	Y		NOx limit of 25 ppmvd corrected to 3% O2	COND ID# 11888 (8)	P/A	Source test
VOC	COND ID# 11888 (2)	Y		CO limit of 50 ppmvd corrected to 3% O2	COND ID# 11888 (8)	P/A	Source test
VOC	COND ID# 11888 (3)	Y		VOC destruction efficiency of 98.5 weight%.	COND ID# 11888 (8)	P/A	Source test
VOC	COND ID# 11888 (4)	Y		1400 F minimum outlet temperature of thermal oxidizer	COND ID# 11888 (5) and (6)	C	Temperature monitoring device

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-311.3	Y		Control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record
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)(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 CARBON CANISTERS**						

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	COND ID# 11879 (10)	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	COND ID# 11879 (11) and (16)	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	COND ID# 11879 (12)	P/M	Record
VOC	COND ID# 11879 (13)	Y		Tank PRV leak tightness standard (< 500 ppmw)	COND ID# 11879 (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)(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)(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	COND ID# 11879 (1)	Y		NOx limit of 25 ppmvd corrected to 3% O2	COND ID# 11879 (8)	P/A	Source test
VOC	COND ID# 11879 (2)	Y		CO limit of 50 ppmvd corrected to 3% O2	COND ID# 11879 (8)	P/A	Source test
VOC	COND ID# 11879 (3)	Y		VOC destruction efficiency of 98.5 weight%.	COND ID# 11879 (8)	P/A	Source test

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	COND ID# 11879 (4)	Y		1400 F minimum outlet temperature of thermal oxidizer	COND ID# 11879 (5) and (6)	C	Temperature monitoring device

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-311.3	Y		Control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record
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/M	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)

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
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	COND ID# 11880 (2)	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	COND ID# 11880 (3) and (7)	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	COND ID# 11880 (4)	P/M	Record
VOC	COND ID# 11880 (5)	Y		Tank PRV leak tightness standard (< 500 ppmw)	COND ID# 11880 (5)	P/Q	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
BAAQMD 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-311.3	Y		Control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/M	Record
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)(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 CARBON CANISTERS**						
VOC	COND ID# 11882 (10)	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	COND ID# 11882 (11) and (16)	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	COND ID# 11882 (12)	P/M	Record

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	COND ID# 11882 (13)	Y		Tank PRV leak tightness standard (< 500 ppmw)	COND ID# 11882 (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)(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)(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	COND ID# 11882 (1)	Y		NOx limit of 25 ppmvd corrected to 3% O2	COND ID# 11882 (8)	P/A	Source test
VOC	COND ID# 11882 (2)	Y		CO limit of 50 ppmvd corrected to 3% O2	COND ID# 11882 (8)	P/A	Source test
VOC	COND ID# 11882 (3)	Y		VOC destruction efficiency of 98.5 weight%.	COND ID# 11882 (8)	P/A	Source test
VOC	COND ID# 11882 (4)	Y		1400 F minimum outlet temperature of thermal oxidizer	COND ID# 11882 (5) and (6)	C	Temperature monitoring device

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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-311.3	Y		Control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC	BAAQMD 8-5-328.2	Y		Tank cleaning control device standard; includes 90% abatement efficiency requirement	8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record
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/M	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)(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

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	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	COND ID# 11880 (2)	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	COND ID# 11880 (3) and (7)	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	COND ID# 11880 (4)	P/M	Record
VOC	COND ID# 11880 (5)	Y		Tank PRV leak tightness standard (< 500 ppmw)	COND ID# 11880 (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 8-5	**Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES**						
VOC	BAAQMD 8-5-311.3	Y		Control device standards; includes 95% efficiency requirement	None	P/A	MOP Volume IV ST-34
VOC		Y		Record of liquid stored and vapor pressure range.	BAAQMD 8-5-501	P/E	Record
BAAQMD Permit	**PERMIT CONDITIONS FOR SLUDGE DRUM**						

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	COND ID# 8771 (2)	Y		Valve and flange fugitive emission leak standard of 500 ppm at 1 cm	COND ID# 8771 (1)	Per Reg 8-18	Method 21
VOC	COND ID# 8771 (4)	Y		Throughput limit for 12 consecutive month period	COND ID# 8771 (5)	P/M	Record
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.**						

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 1-522	Continuous Emission Monitoring	Manual of Procedures, Volume V
BAAQMD 1-605	Laboratory, Source Test and Air Monitoring Procedures	Manual of Procedures
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling
BAAQMD 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 8-2-301	VOC Emission Limit for Miscellaneous Operations	Manual of Procedures, Volume, IV, ST-7 or EPA method 25 or 25A
BAAQMD 8-5-117	Low Vapor Pressure Exemption for Tanks	Manual of Procedures, Volume III, Lab Method 28
BAAQMD 8-5-311.3	Tank Emission Control System Requirements, 95% Abatement Efficiency	Manual of Procedures, Volume IV, ST 7-34
BAAQMD 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 8-5-402.
BAAQMD 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 and 8-5-404.1.

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 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 8-5-402 and 8-5-404.2.
BAAQMD 8-5-328.2	Tank Cleaning and Degassing Emission Control System Requirements	Manual of Procedures, Volume IV, ST-7
BAAQMD 8-7-301	Phase I Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Gasoline Vapor Recovery Leak Test Procedure; and ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency
BAAQMD 8-7-302	Phase II Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-37, Liquid Removal; and ST-41, Liquid Retain and Spitting from Nozzles
BAAQMD 8-7-313	Phase II Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-37, Liquid Removal; and ST-41, Liquid Retain and Spitting from Nozzles
BAAQMD 8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD 8-8-302.7	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD 8-18	Fugitive Emission Monitoring Requirements	EPA Method 21
BAAQMD 8-44-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-44-304.1	Tank vessel is leak free and gas tight	EPA Method 21
BAAQMD 8-44-603	Leak Tests and Gas Tight Determinations	EPA Method 21
BAAQMD 8-46-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-46-304.1	Tank vessel is leak free and gas tight	EPA Method 21

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-1-604	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1
BAAQMD 9-1-606	Analysis of Gas Streams for H_2S	Manual of Procedures, Volume III, LAB 31, or equivalent method approved by the APCO
BAAQMD 9-2-301	Limitations on H_2S Ground Level Concentrations	Manual of Procedures, Volume VI, Section 1
BAAQMD 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 (nitrogen oxides) and ST-14 (oxygen)
BAAQMD 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 9-10-112	Limited Exemption, Low Fuel Usage	ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89
BAAQMD 9-10-301 and 9-10-302	Refinery-Wide NO_x Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)
BAAQMD 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 9-10-303.1	NO_x Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)
BAAQMD 9-10-304.1	NO_x Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B (nitrogen oxides) and ST-14 (oxygen)

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 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
40 CFR 60 Subpart J 60.104(a)(1)	Fuel Gas H_2S Concentration Limit	40 CFR 60 Appendix B, Performance Specification 7 and Method 11 for Relative Accuracy
40 CFR 60 Subpart Kb 60.112b (a)(3)(i)	NSPS Subpart Kb Closed Vent System – leak detection	40 CFR 60 Appendix A, Method 21 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 VV 60.482-2(b)(1)	Pumps in light liquid service – leak detection	40 CFR 60 Appendix A, Method 21 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	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 60 Subpart VV 60.485(c)
40 CFR 60 Subpart VV 60.482-3(d)	Compressor barrier fluid system and seal failure detection sensor.	

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart VV 60.482-3(i)	Compressors designated for "no detectable emission" – leak detection	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 60 Subpart VV 60.485(c)
40 CFR 60 Subpart VV 60.482-4(b)(1)	Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 60 Subpart VV 60.485(c)
40 CFR 60 Subpart VV 60.482-7(b)	Valves in gas/vapor service and in light liquid service – leak detection.	40 CFR 60 Appendix A, Method 21 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	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 60 Subpart VV 60.485(c)
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.	40 CFR 60 Appendix A, Method 21 once per year in accordance with written plan (60.482-7(h)(3)
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	40 CFR 60 Appendix A, Method 21 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	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.343 (a)(1)(i)(A)	Tank fittings leak detection	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 61 Subpart FF 61.355(h)
40 CFR 61 Subpart FF 61.345 (a)(1)(i)	Container fittings leak detection	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 61 Subpart FF 61.355(h)

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 61 Subpart FF 61.347 (a)(1)(i)(A)	Oil/Water Separator fittings leak detection	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 61 Subpart FF 61.355(h)
40 CFR 61 Subpart FF 61.349 (a)(1)(i)	Closed-vent system leak detection	40 CFR 60 Appendix A, Method 21 as specified in 40 CFR 61 Subpart FF 61.355(h)
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
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
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

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
9-1-302	General Sulfur Dioxide Emission Limitation	300 ppm sulfur dioxide stack limit not applicable with GLM system in place as required by 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
9-1-307	Emission Limitations for Sulfur Recovery Plants	Sulfur dioxide emissions from Claus sulfur plants are less than 100 pounds per day.
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	Claus sulfur plant 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
9-1-307	Emission Limitations for Sulfur Recovery Plants	Sulfur dioxide emissions from Claus sulfur plants are less than 100 pounds per day.
40 CFR 60 Subpart J	Standards of Performance for Petroleum	Claus sulfur plant has not been modified after October 4, 1976

IX. Permit Shield

	Refineries	

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 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 - 7
Permit Shield for Subsumed Requirements
S-21

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition # 10574-19	Continuous fuel flow monitor and recorder	BAAQMD 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B - 8
Permit Shield for Subsumed Requirements
S-22

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition # 10574-19	Continuous fuel flow monitor and recorder	BAAQMD 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B - 9
Permit Shield for Subsumed Requirements
S-220

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description

IX. Permit Shield

Table IX B - 9
Permit Shield for Subsumed Requirements
S-220

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD 9-5-502	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.)
BAAQMD Condition # 10574-19	Continuous fuel flow monitor and recorder	BAAQMD 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B - 10
Permit Shield for Subsumed Requirements
S-1030, S-1031, S-1032, S-1033

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD Condition 19177-38	Monitoring (CEM for NOx will assure compliance with 9-9-303 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 19177-38	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.)

IX. Permit Shield

IX. Permit Shield

Table IX B - 23
Permit Shield for Subsumed Requirements
CEMS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
40 CFR 60.7(c)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(1)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(2)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(3)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(4)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(d)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(d)(1)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(d)(2)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.

IX. Permit Shield

Table IX B - 24
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 10-52	40 CFR 60 Subpart VV. Standards of Performance For Equipment Leaks of VOC In The Synthetic Organic Chemicals Manufacturing Industry.	40 CFR 63.640(p)	For Valero process unit fugitive components, with the exceptions of the Dimersol Unit and the vapor recovery compressors, Subpart VV is superceded by Refinery MACT, 40 CFR 63 Subpart CC.
BAAQMD 10-59	40 CFR 60 Subpart GGG. Standards of Performance For Equipment Leaks Of VOC In Petroleum Refineries	40 CFR 63.640(p)	For Valero process unit fugitive components, with the exceptions of the Dimersol Unit and the vapor recovery compressors, Subpart GGG is superceded by Refinery MACT, 40 CFR 63 Subpart CC.
BAAQMD 11-7-302	Pumps	BAAQMD 8-18-303	First attempt to repair pumps within 5 days, repair within 15 days, subsumed by 8-18-303 which has a 24 hour / 7 day time limit for pumps in organic compound service.
BAAQMD 11-7-303	Compressors	BAAQMD 8-18-303	First attempt to repair compressors within 5 days, repair within 15 days, subsumed by 8-18 which has 24 hour / 7 day time limits for compressors in organic compound service.
BAAQMD 11-7-307	Valves	BAAQMD 8-18-302	First attempt to repair valves within 5 days, repair within 15 days, subsumed by 8-18-302 which has 24 hour / 7 day time limits for valves in organic compound service.
BAAQMD 11-7-307.3	Valves	BAAQMD 8-18-404	Allows relief from monitoring if designated as having no detectable emissions. BAAQMD Regulation 8-18-404 does not allow this relief.
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.

IX. Permit Shield

Table IX B - 24
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 11-7-307.5	Valves	BAAQMD 8-18-401.3	Allows relief from monthly monitoring if designated as difficult-to-monitor. BAAQMD Regulation 8-18-206 definition of inaccessible is more stringent. BAAQMD 8-18-401.3 requires yearly monitoring for difficult-to-monitor valves.
BAAQMD 11-7-308	Flanges and Other Connectors	BAAQMD 8-18-304	First attempt to repair flanges and other connectors within 5 days, repair within 15 days, subsumed by 8-18-304 which has 24 hour / 7 day time limits.
BAAQMD 11-7-310.2	Delay of Repairs-Valves	BAAQMD 8-18-306.1	Repair of technically infeasible 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.

Table IX B - 25
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 11-7-310.3	Delay of Repairs-Valves	BAAQMD 8-18-306.1	Repair of technically infeasible 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.

IX. Permit Shield

Table IX B - 25
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 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	40 CFR 63.640(p)	For Valero, Subpart V 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 61.350(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.

IX. Permit Shield

Table IX B - 25
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
			Subsumed by BAAQMD 8-18-306.1 which requires repair during the next turnaround or 5 years, whichever is sooner.

X. 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.

X. 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

E 6, E 9, E 12
Very large or very small number values are commonly expressed in a form called scientific

X. Glossary

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.

X. Glossary

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

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

X. Glossary

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

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

X. Glossary

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
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.

X. Glossary

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

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 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.

X. Glossary

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

THC
Total Hydrocarbons (NMHC + Methane)

therm
100,000 British Thermal Units

Title V
Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

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

X. Glossary

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
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

X. Glossary

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

XI. APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1