

Bay Area Air Quality Management District

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

Revision 4

Draft

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

Douglas W. Comeau
Vice President and General Manager
(707) 745-7724

Facility Contact

Todd M. Lopez,
Environmental Manager
(707) 745-7203

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

BAAQMD Engineering Division Contact:
Thu H. Bui

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

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

Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

- BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 7/19/06);
- SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 7/19/06);
- SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 6/15/05);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/21/04);
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as adopted by the District Board on 6/15/05);

- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03); ~~a~~-And
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review (as approved by EPA through 6/23/95)

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

1. This Major Facility Review Permit was issued on [date of issuance]~~December 1, 2003,~~ and expires on November 30, 2008~~[date of expiration]~~. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [based on date of issuance]~~May 31, 2008~~ and no earlier than [based on date of issuance]~~November 30, 2007~~. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after November 30, 2008**~~[based on date of issuance]~~. If the permit renewal has not been issued by [], but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to

I. Standard Conditions

- halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
 5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)
 12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

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

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D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, 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]December 1, 2003, to May 31, 2004[June 30th or December 31st]. The report shall be submitted by [July 31st or January 31st]. The second reporting period for this permit shall be June 1, 2004, to June 30, 2004. Subsequent reports shall be for the following reporting periods: July 1st through December 31st and January 1st through June 30th and July 1st through December 31st, and. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The ~~first~~ certification period ~~will~~shall be [date of issuance]December 1, 2003, to [December 31st]November 30, 2004. The second certification period shall be December 1, 2004, to December 31, 2004. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other

I. Standard Conditions

specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

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

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

H. Emergency Provisions

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

I. Severability

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

J. Miscellaneous Conditions

1. In Table II-A, for each source with a capacity identified as a firm limit, the maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)
2. In Table II-A, for each source with a capacity identified as a grandfathered limit, all capacities as shown in Table II-A ~~is-are~~ based upon District records at the time of the MFR permit issuance. ~~These throughput limits function as reporting thresholds only and exceedance of any of these limits does not constitute noncompliance with the MFR permit. As such, exceedance of a grandfathered throughput limit is not subject to Section I.F reporting requirements. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as~~

I. Standard Conditions

~~defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only.~~ Exceedance of ~~a grandfathered~~ this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Regulation 2-1-234.3). The facility must report as a permit application any exceedance of these limits within 30 days of discovery to facilitate the determination of whether a modification has occurred. The reports shall be sent to the following address:

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

3. Reserved.
4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.
5. Deleted. The District addressed the applicability of 40 CFR Part 63, Subpart CC to certain flares in Item #1 of the February 15, 2005 letter to Deborah Jordan.
6. Deleted. The District addressed the applicability of Regulation 8, Rule 2 to certain cooling towers in Item #4 of the February 15, 2005 letter to Deborah Jordan.
7. Deleted. The District addressed the applicability of 40 CFR Part 61, Subpart QQQ to certain wastewater treatment sources in Item #9 of the February 15, 2005 letter to Deborah Jordan, and in the Revision 2 Statement of Basis.
8. Deleted. The District addressed the applicability of 40 CFR Part 63, Subpart FF to certain waste streams in Item #11 of the February 15, 2005 letter to Deborah Jordan, and in the Revision 2 Statement of Basis.
9. Deleted. The District addressed the ESP monitoring to assure compliance with SIP particulate standards in Item #13 of the February 15, 2005 letter to Deborah Jordan, and in the Revision 2 Statement of Basis.

K. Accidental Release

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

II. EQUIPMENT

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-1	Claus - modified 3 stage; Burns Multi-fuel; (SULFUR PLANT 'A' TRAIN ACID GAS BURNER, F-1301A)	Burners: John Zink Co.	Burners (4): DB-0-24	160 short tons/day <u>(Registration 76227), Superseded by 240 short tons/day (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers</u>	58,400 short tons/year <u>(Grandfathered Source) Superseded by 87,600 short tons/year (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)</u>
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 <u>(Registration 76227), Superseded by 240 short tons/day (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers</u>	58,400 short tons/year <u>(Grandfathered Source) Superseded by 87,600 short tons/year (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)</u>
S-3	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-101) <u>To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76</u>	Burners: John Zink Co.	Burners (3): YS-30	83.88 ktherms/day fuel gas (349.5 MMBTU/hr) 43.2 ktherms/day CO flue gas (179.8 MMBTU/hr)	30.6 MM therms/year fuel gas (349.5 MMBTU/hr) 15.7 MM therms/year CO flue gas (179.8 MMBTU/hr) (Grandfathered Source)
S-4	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, REDUCED CRUDE PREHEAT, F-102) <u>To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76</u>	Burners: John Zink Co.	Burners (3): YS-22	40.75 ktherms/day fuel gas (169.8 MMBTU/hr) 21.45 Ktherms/day CO flue gas (89.4 MMBTU/hr)	14.9 MMtherms/year fuel gas (169.8 MMBTU/hr) 7.8 MM therms/year CO flue gas (89.4 MMBTU/hr) (Grandfathered Source)
S-5	Fluid cat cracker, FCC fresh feed,	Custom	N/A	77.2 kBBL/day fresh	27.0 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 pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	(FCCU REGENERATOR R-702)			feed (actual) <u>Superseded by 80 kBBL/day fresh feed, daily maximum (Condition 20820, Part 46) effective upon activation of Condition 20820, Part 21.a triggers</u>	fresh feed (actual 180 day average. of 74.1 kbbbl/day) (Grandfathered Source) <u>Superseded by 28.1 MMBBL/year fresh feed (based on 77 kBBL/day fresh feed, annual average) (Condition 20820, Part 46) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)</u>
S-6	Fluid coking - general, Coker fresh feed, (COKER BURNER R-902)	ER&E	N/A	39.6 kBBL/day fresh feed (design safety valve limit)	14.5 MMBBL/year fresh feed (39.6 kBBL/day) (Grandfathered Source)
S-7	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, JET FUEL HYDROFINING, F-103)	Burners: John Zink Co.	Burners (4): HEVD-18	12.72 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 53 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	4.64 MMtherms/year (annual throughput is based on an demonstrated actual hourly maximum firing rate of 53 MMBTU/hour) (Grandfathered Source)
S-8	Fluid coking - storage, Coker product, (Coke Storage Tanks TK-1902 A/B)	Custom	N/A	2400 tons/day (based on 100 tons/hour)	613.2 ktons/year. (based on 70 tons/hour) (Grandfathered Source) <u>Superseded by 876 ktons/year (based on 2400 tons/day) (Condition 20820, Part 48) effective upon</u>

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					activation of Condition 20820, Part 21.a triggers (New Source Review)
S-9	Blow-down system - w/o control, Crude oil (Vapor Recovery System)	Custom	N/A	135 kBBL/day permit limit	49.3 MMBBL/year (135 kbbl/day) (Grandfathered Source)
S-10	Removed from Service (5/2005)				
S-11	Storage, Carbon black, (Activated Carbon Bin TK-2061)	Custom	N/A	2.4 tons/day (based on 0.1 tons/hr)	292 tons/12-months (Condition #9897) (New Source Review)
S-12	Removed from Service (5/2005)				
S-13	Process Heater/Furnace, Refinery make gas (RMG) (Direct Fired Air Heater, Aux. Burner, F-702)	John Zink Co.	Burner (1): Z-38	14.4 ktherms/day (daily capacity is based on a burner design value of 60 MMBTU/hr)	Startup burner: No annual throughput limit is needed. (Grandfathered Source)
S-16	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (ACID GAS FLARE)	John Zink Co.	16" tip	0.084 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.35 MMBTU/hour)	30.66 ktherms/year (based on actual hourly maximum firing rate of 0.35 MMBTU/hour) Pilot gas only (Grandfathered Source)
S-17	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (BUTANE FLARE, ST-1701)	John Zink Co.	Burners (2): STF-LH-127-30HF	0.024 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.10 MMBTU/hour)	8.76 ktherms/year (based on actual hourly max firing rate of 0.1 MMBTU/hour) Pilot gas only (Grandfathered Source)
S-18	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (SOUTH FLARE, ST-2101)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas 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 pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				firing rate of 1.40 MMBTU/hour)	(Grandfathered Source)
S-19	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (NORTH FLARE ST-2103)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-20	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, NAPHTHA HYDROFINING, F-104)	Custom	Burners (6): John Zink VYD-18	14.88 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 62 MM/BTU/hour) (Reg 9 Rule 10 Compliance Plan)	5.43 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 62 MMBTU/hour) (Grandfathered Source)
S-21	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-301) <u>Either S-21 or S-22 To Be Removed From Service Upon Startup of S-1061 and S-1062 Hydrogen Reformer Furnaces per Condition 20820, Part 76</u>	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) <u>Superseded by 53 MMtherms/365 days (average of 605 MMBtu/hr) (Condition # 24197, Part 37) effective upon startup of S-1061 and S-1062 (New Source Review)</u>
S-22	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-351) <u>Either S-21 or S-22 To Be Removed</u>	Custom	Burners: 980	147.36 ktherms/day (daily capacity is based on an demonstrated actual	106 MMtherms/365-days (combined w/S-21) (average of 605 MMBTU/hour per

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	<u>From Service Upon Startup of S-1061 and S-1062 Hydrogen Reformer Furnaces per Condition 20820, Part 76</u>			hourly maximum firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	furnace) (Condition #10574-37) <u>Superseded by 53 MMtherms/365 days (average of 605 MMBtu/hr) (Condition # 24197, Part 37) effective upon startup of S-1061 and S-1062</u> (New Source Review)
S-23	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS OIL HYDROCRACKING, F-401)	Custom	Burners (20): John Zink Lonox LNV-PC-70	200 MMBTU/hour for any 1 hour period; 44.4 ktherms/day (average of 185 MMBTU/hour) (Condo. #14318) (Regulation 9, Rule 10 Compliance Plan)	16.21 MMtherms/year (average of 185 MMBTU/hour) (New Source Review)
S-24	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, CAT FEED HYDROFINING, F-601)	Custom	Burner (1): Exxon 50J	7.92 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	2.89 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Grandfathered Source)
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) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				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) (Grandfathered Source)
S-27	Waste gases; Other/not specified, Waste gases, Sodium hydroxide, 7 days/wk, 10 hrs/day, 52 wks/year (PFR REGENERATION FACILITIES)	Custom	N/A	22.56 MMSCF/day (based on 0.94 MMSCF/hour)	255.5 MMSCF/year (based on 70 kscf/hour for 10 hour/day – 365 day/year.) (Grandfathered Source)
S-29	Cooling tower, Fresh water, Water - process, other/not spec, (COOLING TOWER)	Deflon Anderson	5 DOP 4248-2615031 (5 cells)	85.5 MMgal/day circulation rate (based on 59.4 kgal/min)	31,220 MMgal/year (based on –85.5 MMgal/day circulation rate) (Grandfathered Source)
		Marley	2 cells		
S-30	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR PREHEAT, F-2901)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-31, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
S-31	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2902)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
S-32	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2903)	Custom	Burners (9): John Zink HEVR-22P	[Sources 30-33 must sum to 463 MMBTU/hour =	40.56 MMtherms/year combined with S-30, S-31 and S-33 (average

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	of 463 MMBTU/hour) (Grandfathered Source)
S-33	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2904)	Custom	Burners (7): John Zink HEVR-22	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-31 and S-32 (average of 463 MMBTU/hour) (Grandfathered Source)
S-34	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS HEATER, F-2905)	Custom	Burners (9): John Zink HEVR-22P	17.76 ktherms/day (daily capacity is based on demonstrated actual hourly maximum firing rate of 74 MMBTU/hr) (9-10 Compliance Plan)	6.48 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 74 MMBTU/hour) (Grandfathered Source)
S-35	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS HEATER, F-2906)	Custom	Burners (3): John Zink HEVR-16P	3.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 14 MMBTU/hour) (9-10 Compliance Plan)	1.23 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 14 MMBTU/hour) (Grandfathered Source)
S-36	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-701)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-37	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-702)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/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 pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				daily design firing rate of 272.0 MMBTU/hour)	(throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (New Source Review)
S-38	Removed from Service				
S-39	Removed from Service				
S-40	Commercial/Institutional Boiler, Natural gas, Refinery make gas (RMG) (Utility Package Boiler, SG-2301, 218MMBTU/hr Horizontal force)	CE, Inc. Burners: Coen	34VP-14W; Burners: Daf-42 Low NOx	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (Condition #9296 and 9-10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (New Source Review) and MTBE Phaseout Application 2035
S-41	Industrial Boiler - Other, Natural gas, Refinery make gas (RMG) (Steam Generator, SG-2302)	CE, Inc.	34VP-14W; Burners (2): Type SV	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (9-10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (Grandfathered Source)
S-42	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, TREAT GAS PREHTR, F-1060)	Custom	Burner: John Zink Vyr-22	3.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate off 14.0 MMBTU/hour)	0.1 MMtherms/year (Permit ID# 30330-2) (Grandfathered Source)
S-43	Industrial Turbine (PROCESS GAS TURBINE, GT-401)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)
S-44	Industrial Turbine (PROCESS GAS	GE	Frame Size 3	36.58 ktherms/day	12.35 MMtherms/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 pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	TURBINE, GT-701)			(daily capacity is based on a design (winter temperature) hourly maximum firing rate of 152.4 MMBTU/hour)	throughput is based on a design (seasonal average temperature) maximum firing rate of 141.0 MMBTU/hour) (Grandfathered Source)
S-45	Industrial Turbine (PROCESS GAS TURBINE GT-702)	GE	Frame Size 5	61.80 78.6 ktherms/day (daily capacity is based on an demonstrated the <u>maximum -actual</u> hourly maximum firing rate of 257.5 327.5 MMBTU/hour)	20.1 28.7 MMtherms/year (throughput is based on an demonstrated the <u>maximum</u> annualized daily firing rate of 229.4 327.5 MMBTU/hour) <u>consistent with Condition 20820 Part 46</u> (Grandfathered Source <u>New Source Review</u>)
S-46	Industrial Turbine (Process Gas Turbine, GT 1031 with steam injection)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)
S-48	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-1031)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-50	Process Heater/Furnace, Refinery make	John Zink	Burner: Z-38E	10.08 ktherms/day	Start up burner: No

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	gas (RMG) (AIR HEATER, CKR AUX. BURNER, F-901)			(capacity is based on a demonstrated actual hourly maximum firing rate of 42 MMBTU/hour)	annual throughput limit is needed. (Grandfathered Source)
S-51	HCU Total Feed Sandfilter, FIL 410A	N/A	N/A	40.0 kb/day (same as S-1003), <u>Superseded by 44.0 kBBL/day. (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers</u>	14.6 MMBBL/year (average. of 40.0 kb/day) (Grandfathered Source) <u>(Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers</u> (New Source Review)
S-52	HCU Total Feed Sandfilter, FIL 410B	N/A	N/A	40.0 kb/day (same as S-1003), <u>Superseded by 44.0 kBBL/day. daily maximum (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers</u>	14.6 MMBBL/year (average. of 40.0 kb/day) (Grandfathered Source) <u>(Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers</u> (New Source Review)
S-55	Storage, Refinery sour waste water, (TK. 2801 SOUR WATER STORAGE)	N/A	N/A		5.61 MMBBL/year (based on 15.4 Kbbbl/d) (Grandfathered Source)
S-56	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-401)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 - 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-57	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-58	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-59	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-60	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-61	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-62	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-63	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1711, GASOLINE COMP)	N/A	N/A	10920 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] combined with S-73, 74, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-67	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-68	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-72	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-73	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1733, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] combined with S-63, 74, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-74	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-75	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1736, GASOLINE COMP)	N/A	N/A	3360 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] combined with S-63, 73, 74, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-76	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1737, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					163 combined with S-63, 73, 74, 75, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-77	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1738, GASOLINE)	N/A	N/A	3360 kgal	7.4 MMBBL/365-day Gasoline (Based on prior MTBE production of 4.5 kBBL/day plus 5.8 MMBBL/year of MTBE receipts through S-207) (Grandfathered Source)
S-78	Tank, External Floating Roof, GREEN, Alkylate, Welded, Pontoon (TK-1739, GASOLINE COMPONENT)	N/A	N/A	6804 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] combined with S-63, 73, 74, 75, 76, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-79	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1751, GASOLINE)	N/A	N/A	5040 kgal	49.275 MMBBL/year combined with S-80, 82, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-80	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1752, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 82, 83, 84, 86 and 92 (based on 135

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					kBBL/day (Grandfathered Source)
S-81	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1753, SLOP/GASOLINE)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-85, 103 and 104 (actual) (Grandfathered Source)
S-82	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1754, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-83	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1755, GASOLINE)	N/A	N/A	5040 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-84	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1756, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-85	Tank, External Floating Roof, GOLD, Water/organics mixture, Waste oil, Welded, Pontoon (TK-1757, SLOP/GASOLINE)	N/A	N/A	1260 kgal	8.21 MMBBL/year combined with S-81, 103 and 104 (actual) (Grandfathered Source)
S-86	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1758, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-87	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-	N/A	N/A	650 kgal	13.0 MMBBL/year combined with S-88,

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	1759, GASOLINE)				89, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-88	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1760, GASOLINE w/Primary and Secondary Seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-89	Tank, Internal Floating Roof, 6WHITE, Gasoline - unleaded, Welded, Pan (TK-1761, GASOLINE)	N/A	N/A	651 kgal	13.0 MMBBL/year combined with S-87, 88, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-90	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1762, GASOLINE w/liquid mounted primary and secondary seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 89 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-91	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1763, GASOLINE w/liquid mounted primary and secondary seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 89 and S-90 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
S-92	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1771, JP4)	N/A	N/A	4620 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84, 86 & 97 (based on 135 kBBL/day) (Grandfathered Source)
S-97	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-	N/A	N/A	4620 kgal	62.8 MMBBL/year [combined limit for

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	1776, JP4)				Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] ecombined with S-63, 73, 74, 75, 76, 78 and 163 (based on combined total of 172.1 kBBB/day) (Grandfathered Source)
S-101	Tank, Internal Floating Roof, GOLD, Water/organics mixture, Welded, Pan (TK-1791, SLOP w/ primary & secondary seals)	N/A	N/A	189 kgal	5 MMBBL/year (based on 400 gpm rate) (Grandfathered Source)
S-103	Tank, Internal Floating Roof, GREEN, Water/organics mixture, Welded, Pan (TK-1793 SLOP)	N/A	N/A	676 kgal	8.21 MMBBL/year combined with S-81, 85, and 104 (actual) (Grandfathered Source)
S-104	Tank, External Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1795, SLOP)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-81, 85, and 103 (actual) (Grandfathered Source)
S-105	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1796, WWTP SLOP)	N/A	N/A	189 kgal	690.5 kBBB/year – Derived from Condition #8771 (Grandfathered Source)
S-106	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1797, SLOP)	N/A	N/A	76 kgal	548 kBBB/year (actual) (Grandfathered Source)
S-108	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1801, Additives)	N/A	N/A	16,800 gal	6.85 kBBB/year (Grandfathered Source)
S-110	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1803, HTA)	N/A	N/A	16,800 gal	260 kBBB/year (actual) (Grandfathered Source)
S-111	Tank, Vertical Fixed Roof, GOLD,	N/A	N/A	71 kgal	5300 kBBB/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 pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Organic liquid -other/not spec, (TK-1804, HTA)				(actual) (Grandfathered Source)
S-112	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pan (TK-1805, TEL WASH)	N/A	N/A	336 kgal	547.5 kBBL/year (based on 1.5 kBBL/day) (Grandfathered Source)
S-113	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1806, LUBRISOL)	N/A	N/A	2520 gal	85 BBL/year (Grandfathered Source)
S-114	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1807, GASOLINE RED DYE)	N/A	N/A	2520 gal	85 BBL/year (actual) (Grandfathered Source)
S-115	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1808, GASOLINE ORANGE DYE)	N/A	N/A	2520 gal	55 BBL/year (actual) (Grandfathered Source)
S-117	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1810, CORROSION INHIBITOR)	N/A	N/A	6300 gal	200 BBL/year (actual) (Grandfathered Source)
S-120	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec,(TK-1813, METAL DEACT)	N/A	N/A	2520 gal	73 BBL/year (actual) (Grandfathered Source)
S-122	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK 1814, ADDITIVES)	N/A	N/A	2540 gal	85 BBL/year (Grandfathered Source)
S-124	Tank, Vertical Fixed Roof, GOLD, Paraffins - C3+, (TK-1735, PENTANES)	N/A	N/A	3360 kgal	3.28 MMBBL/year (average of 9.0 kBBL/day) (Grandfathered Source)
S-129	Loading, Ship, Ship, 7 Loading Arms (Total) and 3 Loading Arms (Gasoline), Multi-liquid, Unknown fill (Crude / Product Dock (renamed July 1995))	Continental EMSCO Loading arms	4 – CEHMA-10; 3 – CEHMA-6	240 kBBL/day (based on 10kBBL/hour)	9.39 MMBBL/year gasoline loaded (average of 25.7 kBBL/day) (New Source Review)
S-131	Storage, Refinery sludge, (WASTE WATER SLUDGE TANK TK-2069)	N/A	N/A		29 MM gal/12-month Derived from Condition #8771

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					(Grandfathered Source)
S-132	Storage, Caustic waste, (Tk 2711, SPENT CAUSTICS)	N/A	N/A		325 kBBL/year (Grandfathered Source)
S-133	Storage, Acid - waste, (TK 2712, SPENT ACID)	N/A	N/A		219 kBBL/year (average of 600 BBL/day) (Grandfathered Source)
S-134	Storage, Caustic waste, (TK 2713, SPENT CAUSTIC SURGE)	N/A	N/A		207 kBBL/year (Grandfathered Source)
S-143	Removed from service Tank, Vertical Fixed Roof, UN, Hydrocarbon-mixtures, other/not spec., (Corrosion Inhibitor Tank (EC1010A or equivalent)) TK-1034	N/A	N/A	4500-gal	15 kgal/12-month (Condition #13045) (New Source Review)
S-150	Refinery sour waste water, (TK-PST-2051 , PRIMARY SLUDGE THICKENER)	N/A	N/A		3.19 MMBBL/year feed (design basis of 255 gpm) (Grandfathered Source)
S-151	Wastewater storage - ponds, Stormwater and process water, (Wastewater Equalization Pond)	N/A	N/A		S-151 contains diverted process/stormwater. Very low concentrations of HC bearing compounds would be detected in this water. For the most part these ponds are dry. No throughput limits would be applicable (Grandfathered Source)
S-154	Refinery sour waste water (WASTE WATER BIOXIDATION UNIT 2053A)	N/A	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600	32.5 MMBBL/year combined with S-155 and 169 (average of 2600 gpm) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				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) (Grandfathered Source)
S-156	Wastewater storage - ponds, (WASTE WATER RETENTION POND)	N/A	N/A		S-156 contains diverted process/stormwater. Very low concentrations of HC bearing compounds would be detected in this pond. For the most part these ponds are normally dry. No throughput limits apply (Grandfathered Source)
S-157	Storage, Sulfur, (SULFUR STORAGE PIT AT SULFUR PLANTS)	N/A	N/A	1147 short tons/day (average of 47.8 short tons/hour) Sulfur production, Superseded by 480 short tons/day, daily maximum (Condition 20820, Part 44) effective upon activation of Condition 20820, Part 21.a triggers	116,800 short tons/year (combined permit condition sulfur production from S-1 and S-2) (Grandfathered Source) , Superseded by 175,200 short tons/year (Condition 20820, Part 44) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-158	Tank, Vertical Fixed Roof, GOLD, Perchloroethylene (PERC), Carbon tetrachloride , 7 ft diameter (TK 2902; Carbon Tetrachloride)	N/A	N/A	2300 gal	30 kgal/12-month (PERC) (Condition #9584) (New Source Review)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-159	Other petroleum products; Other, Lube oil, (S.G.701 & G.T.701 Lube Oil Reservoir)	Custom	N/A	410.4 kgal/day (average. of 17.1 kgal/hour)	149.8 MMgal/year (based on 410.4 kgal/day) (Grandfathered Source)
S-160	Other petroleum products; Other, Lube oil, 7 days/wk, 24 hours/day, 2 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C1031)	Custom	N/A	38.4 kgal/day (average. of 1.6 kgal/hour)	14.0 MMgal/year (based on 38.4 kgal/day) (Grandfathered Source)
S-161	Separator - oil/water, Waste water, (OILY WATER SEWER PIPELINE)	N/A	N/A		Throughput limit not prudent for sewer system which handles both oily water and stormwater (Grandfathered Source)
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 limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] eomined with S-63, 73, 74, 75, 76, 78 and 97 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-165	GDF, vehicle, non-retail-fee, balance (Phase 2), 2 tanks, 1 exempt nozzle, 1 gasoline nozzle (GDF #6764)	Nozzle: Gilbarco Balance System: Emco Wheaton	Nozzle: 625-100 Balance System: #A3003		2.2 kBBL/year (Grandfathered Source)
S-167	Other petroleum products; Other, Oil - non-fuel, other/not spec, 6.6 tons/hour max, 7 days/wk, 24 hours/day, 50 wks/year (Seal Oil Sparger for Compressor C-401)	N/A	N/A	25.1 kgal/day (average. of 17.4 gpm)	9.15 MMgal/year (based on 25.1 kgal/day) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-168	Other petroleum products; Other, Paraffins - C3+, 1.7 N/A/hour max, 7 days/wk, 24 hours/day, 50 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C-2901)	N/A	N/A	21.6 kgal/day (average of 15 gpm)	7.9 MMgal/year (based on 21.6 kgal/day) (Grandfathered Source)
S-169	Other process/not specified, Refinery waste water, 1.25 thou barrels/hour max, 7 days/wk, 24 hours/day, 52 wks/year (Third Biooxidation Unit)	Custom	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-154 and 155 (based on 89.1 kBBL/day) (New Source Review)
S-170	Removed from Service				
S-171	Removed from Service				
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 <u>20</u> 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 <u>20</u> MMBTU/hour (HHV)) (New Source Review)
S-174	Material Handling/Miscellaneous, Lime, (TK 2321, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year (New Source Review)
S-175	Material Handling/Miscellaneous, Lime, (TK 2322, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year (New Source Review)
S-176	Material handling - other/not, Salt, (TK 2325, Brine Saturator)	Scienco (or equivalent)	N/A	50 tons/day	600 tons/year (New Source Review)
S-177	Removed from Service				
S-180	Removed from Service				
S-188	Separator - oil/water, Waste water, 4 days/wk, 24 hours/day, 52 wks/year (Oil/Water/Sediment Separator)	WEMCO	Pacesetter	24 kBBL/day (permit limit)	8.76 MMBBL/year (permit limit) (New Source Review)
S-189	Separator - oil/water, Waste water, (Induced Static Flotation Cell)	L'eau Claire Int'l	75x	24 kBBL/day (permit limit)	8.76 MMBBL/year (permit limit)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					(New Source Review)
S-193	Other petroleum products; Other, Waste water (TK 2027, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-196 (total of 3000 gpm) (New Source Review)
S-194	Separator - oil/water, Waste water, (Oil/Water/Sediment Separator #2006)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-195	37.5 MMBBL/year combined with S-195 (total of 3000 gpm) (New Source Review)
S-195	Separator - oil/water, Waste water (Oil/Water/Sediment Separator #2056)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-194	37.5 MMBBL/year combined with S-194 (total of 3000 gpm) (New Source Review)
S-196	Other petroleum products; Other, Waste water (TK 2077, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-193 (total of 3000 gpm) (New Source Review)
S-197	Separator - oil/water, Waste water (Induced Static Flotation Cell #2007)	L'eau Claire Int'l	unknown	102.9 kBBL/day combined with S-198	37.5 MMBBL/year combined with S-198 (total of 3000 gpm) (New Source Review)
S-198	Separator - oil/water, Waste water (Induced Static Flotation Cell #2057)	L'eau Claire Int'l	unknown	102.9 kBBL/day combined with S-197	37.5 MMBBL/year combined with S-197 (total of 3000 gpm) (New Source Review)
S-199	Other petroleum products; Other, Oil/water mixture, Tank, Vertical Fixed Roof, GOLD, Crude oil, (Oil Collection Drum D-2055)	N/A	N/A	1300 gal	41.7 kBBL/year (based on 200 gal/hour) (New Source Review)
S-200	Other petroleum products; Other, Oil/water mixture, (Collection Drum D-2056)	N/A	N/A	2300 gal	2.50 MMBBL/year (design basis of 200 gpm) (New Source Review)
S-202	Loading, Truck, 1 Loading Arm (Total), Crude oil, Bottom/Submerged fill (Vacuum Truck Loading from Tank (S-	N/A	N/A	79.5 kgal/day	29 MMgal/year Derived from Condition #8771

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	131))				(New Source Review)
S-205	Other petroleum products; Other, Waste water (Surge Tank #2026)	N/A	N/A		37.5 MMBBL/year combined with S-206 (total of 3000 gpm) (New Source Review)
S-206	Other petroleum products; Other, Waste water (Surge Tank #2076)	N/A	N/A		37.5 MMBBL/year combined with S-205 (total of 3000 gpm) (New Source Review)
S-207	Tank, External Floating Roof, GOLD, Mogas/Components, Welded, Pontoon (Tk 1740)	N/A	N/A	14,700 kgal	16.9364 MMBBL/365-day (mogas/components) (Condition #10797) (New Source Review) and MTBE Phaseout Application 2035
S-208	Other petroleum products; Other, Petroleum products - other/not spec, (Coker Feed Drum D-920)	N/A	N/A		29 MMgal/12-month (Condition #8771) (New Source Review)
S-209	Loading, Truck, 5 Loading Arms (Total), Bottom/Submerged fill Methanol /Ethanol service.	N/A	"Dry-break" nozzles		2,920 <u>6,620</u> trucks/12-month (Condition #9296) (New Source Review) and MTBE Phaseout Application 2035
S-210	Tank, Internal Floating Roof, - UN, Methanol /Ethanol, Welded (TK-1820)	N/A	N/A	630 kgal	575 <u>1,303</u> kBBL methanol /ethanol/ <u>rolling</u> 12-month (Condition #9296) (New Source Review) and MTBE Phaseout Application 2035
S-211	Alkylate Debutanizer T-4302 (in former MTBE unit)	N/A	N/A	22.8 kBBL/day alkylate (limit based on S-1007 capacity.)	8.32 MMBBL/year (based on 22.8 kBBL/day alkylate) (New Source Review)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					and MTBE Phaseout Application 2035
S-220	Combustion, Furnace - Other, Refinery make gas (RMG) (F-4460 Hot Oil Furnace)	Custom	N/A	84.24 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum rate of 351 MMBTU/hour) (9-10 Compliance Plan)	28,908 MMtherms/365-day (Condition #10574, Part 29 , Superseded by Condition 24197, Part 29, effective upon startup of S-1061 and S-1062) (New Source Review)
S-227	Tank, Vertical Fixed Roof, GOLD, Multi-liquid, (C5/Heatcut/Mogas Component Storage Tank)	N/A	N/A	7350 kgal	3.14 MMBBL/year (average. of 8.6 kBBL/day) (New Source Review)
S-232	Material handling - (ESP Fines Vacuum Conveying System) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727) (New Source Review)
S-233	Storage, (ESP Fines Storage Bin) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727) (New Source Review)
S-236	Product Sulfur Tank 1901 (new)	N/A	N/A	126 kgal	116,800 short tons/year sulfur production (Combined sulfur production from S-1 and S-2, Superseded by 175,200 short tons/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 pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					(based on 480 short tons/day) per Condition 20820, Part 44, effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-237	BOILER-SG1032- (new)	Babcock & Wilcox; Burners: Todd	Type D; Burners: Veriflame SV925 IGO	75.60 ktherms/day average of 315 MMBTU/hour (Condition #16027-19)	25.0536 MMtherms in any 365 consecutive day period (average of 286 MMBTU/hour) (Condition #16027-18) (New Source Review)
S-239	Crude/Product dock Sump (TK-1918)	N/A	N/A	3100 gal	360 kgal/year (Condition 18422, Part 1) (New Source Review)
S-240	Emergency Diesel Engine for Break Tank Raw Water Pump, (P-2401C)	Caterpillar	3408 B, 550 HP		< 100-34 hours/year reliability-related activities (Grandfathered Source)
S-241	Emergency Diesel Engine for Crude Field Firewater Pump, (P-2602)	Cummins	NT-855-FS, 230 HP		< 100-34 hours/year reliability-related activities (Grandfathered Source)
S-242	Emergency Diesel Engine for Dock Firewater Pump (P-2607B)	Cummins	NT855-F3, 340 HP		< 100-34 hours/year reliability-related activities (Grandfathered Source)
S-243	Emergency Diesel Engine for Control Room Standby Power (DG-5101)	Detroit Detroit Diesel	Series 92, Model 8163-7405, 1095 HP		< 100-20 hours/year reliability-related activities (Condition 24375, Part 1) (New Source Review)
S-247	F-5401 Reactor Charge Heater, ULSD	Burners:	CUBL-W	21.95 MMBtu/hr	192,282 MMBTU/year

II. Equipment

Table II A - Permitted Sources

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S-#	Description	Make or Type	Model	Capacity	Throughput
	Unit	Callidus		(Condition 22949, Part 16)	(365 day consecutive period) (Condition 22949, Part 16) (New Source Review)
S-248	F-5402 Stripper Reboiler Heater, ULSD Unit	Burners: Callidus	CUBL-W	35.10 MMBtu/hr (Condition 22949, Part 16)	307.476 MMBTU/year (365 day consecutive period) (Condition 22949, Part 16) (New Source Review)
S-251	Emergency Diesel Engine, DG-5301 for Administrative Building Standby Power	Cummins	QSL9-G3 NR3, 399 HP		< 50 hours/year reliability-related activities (Condition 2285024309, Part 1) (New Source Review)
S-1002	Hydrotreating/hydrofining, Diesel oil, (DIESEL HYDROFINER)	N/A	N/A	14.0 kBBL/day feed (design safety valve limit)	5.1 MMBBL/year feed (14.0 kBBL/day) (Grandfathered Source)
S-1003	Hydrocracking, Distillate oil, 7 days/wk, 24 hours/day, 48 weeks/year (HYDROCRACKER)	N/A	N/A	40.0 kBBL/day fresh feed (design safety valve limit), Superseded by 44.0 kBBL/day (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers	14.6 MMBBL/year fresh feed (40.0 kBBL/day) (Grandfathered Source), (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-1004	Catalytic reforming, Reformate, (CATALYTIC REFORMER-(PFR))	N/A	N/A	39.8 kBBL/day (maximum actual and BAAQMD Condition # 18794, Part 1) feed, Superseded by	12.739 MMBBL/year feed (annual average of 34.9 kBBL/day), Superseded by 14.5 MMBBL/year feed (based on 39.8

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				Condition 20820, Part 55, effective upon activation of Condition 20820, Part 21.a triggers	kBBL/day) (Condition 20820, Part 55), effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-1005	Hydrotreating/hydrofining, Gas oil, (CAT. FEED HYDROFINER)	N/A	N/A	41.4 kBBL/day feed (design feed pump)	15.1 MMBBL/year (41.4 kBBL/day) (Grandfathered Source)
S-1006	Distillation - crude, Crude oil, (CRUDE UNIT WITH 55E6 BTU/hour HEAT EXCHANGER)	N/A	N/A	135 kBBL/day crude oil feed (Condition # 815 Part 1), Superseded by 180 kBBL/day, daily maximum (Condition 20820, Part 50), effective upon activation of Condition 20820, Part 21.a triggers	49.3 MMBBL/year (based on 135 kBBL/day), Superseded by 60.2 MMBBL/year (based on 165 kBBL/day, annual average) (Condition 20820, Part 50), effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-1007	Alkylation, Alkylate, (ALKYLATION UNIT)	N/A	N/A	22.8 kBBL/day (limit based on A/N 3782)	8.32 MMBBL/year (based on 22.8 kBBL/day per A/N 3782) (New Source Review)
S-1008	Hydrotreating/hydrofining, Gasoline - leaded, Gasoline - unleaded, (GASOLINE HYDROFINER)	N/A	N/A	35.0 kBBL/day feed (unit hydraulic limit)	12.8 MMBBL/year feed based on a design rate of 35.0 kBBL/day. (Grandfathered Source)
S-1009	Hydrotreating/hydrofining, Fuel - jet 'A', (JET FUEL HYDROFINER)	N/A	N/A	17.9 kBBL/day feed (design safety valve limit)	6.5 MMBBL/year feed (17.9 kBBL/d) (Grandfathered Source)
S-1010	Hydrogen manufacturing, Refinery make	N/A	N/A	164 MMscf/day	59,900 MMscf/year

II. Equipment

Table II A - Permitted Sources

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S-#	Description	Make or Type	Model	Capacity	Throughput
	gas (RMG), 5900000 6.83 million cubic feet/hour max. (HYDROGEN PLANT)			combined product hydrogen from both A and B trains (CFP duty permit limit), <u>Superseded by 190 MMscf/day, daily maximum combined product hydrogen from A or B train and S-1062 (Condition 20820, Part 57) upon startup of S-1062 Hydrogen Plant</u>	combined product H2 (164 MMscf/day) (Grandfathered Source), <u>Superseded by 69,350 MMscf/year combined product hydrogen from A or B train and S-1062 (based on 190 MMscf/day) (Condition 20820, Part 57), upon startup of S-1062 Hydrogen Plant (New Source Review)</u>
S-1011	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, (HEAVY CAT NAPHTHA HYDROFINER)	N/A	N/A	25.0 kBBL/day (design safety valve limit)	9.1 MMBBL/year (25.0 kBBL/day) (Grandfathered Source)
S-1012	Feedstock; Other/not specified, Petroleum products -other/not spec, (Dimersol Unit)	N/A	N/A	5.0 kBBL/day propylene feed, <u>Superseded by 7 kBBL/day feed (Condition 20820, Part 59), effective upon activation of Condition 20820, Part 21.a triggers</u>	1.825 MMBBL/year (based on 5.0 kBBL/day), <u>Superseded by 2.555 MMBBL/year (based on 7 kBBL/day) (Condition 20820, Part 59), effective upon activation of Condition 20820, Part 21.a triggers</u> (New Source Review)
S-1013	Tank, Pressure, YELLOW, Hexane, Organic liquid -other/not spec, (Dimersol Unit - (D2720) EADC 10.0 kgal Tank)	N/A	N/A	10 kgal	2.84 kBBL/year (design pump limit) (New Source Review)
S-1014	Feedstock; Other/not specified, (Cat Light Ends Process Unit)	N/A	N/A	90.0 kBBL/day total feed (design limit)	32.8 MMBBL/year total feed (90.0 kBBL/day) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-1020	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Heartcut Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1021	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 100 thou barrels/day max, (Heartcut Saturation Unit)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1022	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Cat. Reformer T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1023	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Cat. Naphtha T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1024	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 24 thou barrels/ day max, (Light Cat. Naphtha Hydrotreater)	N/A	N/A	24 kBBL/day	8.76 MMBBL/year (based on 24 kBBL/day) (New Source Review)
S-1026	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (C5/C6 Splitter)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1027	Pentane Rail Car Loading Rack	N/A	N/A	22,500 bbls/day	8.2125 MM Bbl/year Condition #17835 (New Source Review)
S-1030	Combustion Turbine Generator (Refinery Fuel Gas and/or Natural Gas Fired)	General Electric	LM 6000	500 MMBTU/hour	6,351,000 MMBTU/year (combined S-1030 & S-1031) (New Source Review)
S-1031	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,351,000 MMBTU/year (combined S-1030 &

II. Equipment

Table II A - Permitted Sources

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S-#	Description	Make or Type	Model	Capacity	Throughput
					S-1031) (New Source Review)
<u>S-1034</u>	<u>Deisobutanizer, Butamer Unit (T-4801)</u>	<u>N/A</u>	<u>N/A</u>	<u>100 kBBL/day, daily average (Condition 20820, Part 36)</u>	<u>36,500 kBBL/year (based on 100 kBBL/day, daily average)(Condition 20820, Part 36)</u> (New Source Review)
<u>S-1035</u>	<u>Reactor Effluent Stripper, Butamer Unit (T-4802)</u>	<u>N/A</u>	<u>N/A</u>	<u>100 kBBL/day, daily average (Condition 20820, Part 36)</u>	<u>36,500 kBBL/year (based on 100 kBBL/day, daily average)(Condition 20820, Part 36)</u> (New Source Review)
<u>S-1036</u>	<u>Stripper Tower, ULSD Unit (T-5401)</u>	<u>Pressure Vessel, Tower</u>	<u>N/A</u>	<u>25 kBBL/day, daily average (Condition 22949, Part 20), 100 kBBL/day (Condition 20820, Part 36)</u>	<u>9.1 MMBBL/year (based on 25 kBBL/day, daily average)</u> (New Source Review)
<u>S-1047</u>	<u>Tank, External Floating Roof, Crude Oil (TK-1707)</u>	<u>N/A</u>	<u>N/A</u>	<u>27,300 kgals</u>	<u>62.6 MM MMBBL/year, combined with S-57 through S-62 at Facility B5574, and S-1048 (based on 171.5 kBBL/day, annual average) (Condition 20820, Part 32)</u> (New Source Review)
<u>S-1048</u>	<u>Tank, External Floating Roof, Crude Oil (TK-1708)</u>	<u>N/A</u>	<u>N/A</u>	<u>27,300 kgals</u>	<u>62.6 MM MMBBL/year, combined with S-57 through S-62 at Facility B5574, and S-1047</u>

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					<u>(based on 171.5 kBBL/day, annual average) (Condition 20820, Part 32) (New Source Review)</u>
<u>S-1049</u>	<u>Reactor, N-Butane Conversion, Butamer Unit (R-4803A)</u>	<u>N/A</u>	<u>N/A</u>	<u>100 kBBL/day, daily average (Condition 20820, Part 36)</u>	<u>36,500 kBBL/year (based on 100 kBBL/day, daily average)(Condition 20820, Part 36) (New Source Review)</u>
<u>S-1050</u>	<u>Reactor, N-Butane Conversion, Butamer Unit (R-4803B)</u>	<u>N/A</u>	<u>N/A</u>	<u>100 kBBL/day, daily average (Condition 20820, Part 36)</u>	<u>36,500 kBBL/year (based on 100 kBBL/day, daily average)(Condition 20820, Part 36) (New Source Review)</u>
<u>S-1051</u>	<u>Dioline Reactor, ULSD Unit (R-5401)</u>	<u>Pressure Vessel, Reactor</u>	<u>N/A</u>	<u>25 kBBL/day, daily average (Condition 22949, Part 21), 100 kBBL/day (Condition 20820, Part 39)</u>	<u>9.1 MMBBL/year (based on 25 kBBL/day, daily average) (New Source Review)</u>
<u>S-1052</u>	<u>Hydrotreating Reactor, ULSD Unit (R-5402)</u>	<u>Pressure Vessel, Reactor</u>	<u>N/A</u>	<u>25 kBBL/day, daily average (Condition 22949, Part 21), 100 kBBL/day (Condition 20820, Part 39)</u>	<u>9.1 MMBBL/year (based on 25 kBBL/day, daily average) (New Source Review)</u>
<u>S-1058</u>	<u>Feedstock, Other/not specified, (Virgin Light Ends Process Unit)</u>	<u>N/A</u>	<u>N/A</u>	<u>65 kBBL/day</u>	<u>19.7 MMBBL/year total feed (54 kBBL/day) (Grandfathered Source)</u>
<u>S-1059</u>	<u>Industrial Boiler - Other, Carbon</u>	<u>N/A</u>	<u>N/A</u>	<u>529 MMBtu/hr</u>	<u>4,634,400 MMBtu/year</u>

II. Equipment

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-105)				(Condition 20820, Part 71) (New Source Review)
S-1060	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-106)	N/A	NA	259 MMBtu/hr	2,268,840 MMBtu/year (Condition 20820, Part 71) (New Source Review)
S-1061	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-5501)	N/A	Low NOx Burners	980 MMBtu/hr (Condition 20820, Part 18.2)	8,584,800 MMBtu/year (Condition 20820, Part 18.1) (New Source Review)
S-1062	Hydrogen Unit with Pressure Swing Adsorption (PSA)	N/A		190 MMscf/day combined product hydrogen with S-1010 A or B train (Condition 20820, Part 57)	69,350 MMscf/year combined product hydrogen with S-1010 A or B (based on 190 MMscf/day) (Condition 20820, Part 57) (New Source Review)

Table II B - Exempt Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
S-64	Tank, External Floating Roof, GREEN, Gas oil, Welded, Pontoon (TK-1712, GAS OIL)	N/A	N/A	13524 kgal	Exempt (Regulation Regulation 2-1-123.3.2)
S-65	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1713, RESID)	N/A	N/A	5250 kgal	Exempt (Regulation 2-1-123.3.2)
S-66	Tank, External Floating Roof, Distillate oil, Welded, Pontoon (TK-1714, GAS OIL)	N/A	N/A	8400 kgal	Exempt (Regulation Regulation 2-1-123.3.2)
S-69	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, Gas oil, (TK-1717, RESID)	N/A	N/A	5250 kgal	Exempt (Regulation 2-1-123.3.2)

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Table II B - Exempt Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
S-70	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-71	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-93	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1772, JP5)	N/A	N/A	4620 kgal	Exempt- jet fuel (Regulation 2-1-123.3.2)
S-94	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1773, JP5)	N/A	N/A	1050 kgal	Exempt- jet fuel (Regulation 2-1-123.3.2)
S-95	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1774, DIESEL)	N/A	N/A	3150 kgal	Exempt- distillate (Regulation 2-1-123.3.2)
S-96	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1775, DIESEL)	N/A	N/A	3150 kgal	Exempt- distillate (Regulation 2-1-123.3.2)
S-98	Tank, Vertical Fixed Roof, WHITE, Distillate oil, (TK-1777, DIESEL)	N/A	N/A	651 kgal	Exempt- distillate (Regulation 2-1-123.3.2)
S-99	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1778, ETFA)	N/A	N/A	2373 kgal	Exempt- jet (Regulation 2-1-123.3.2)
S-100	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1779, ETF-A)	N/A	N/A	2373 kgal	Exempt- jet (Regulation 2-1-123.3.2)
S-107	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1798, DIESEL (FUEL OIL))	N/A	N/A	4410 kgal	Exempt- distillate (Regulation 2-1-123.3.2)
S-109	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1802, GASOLINE ANTI-OXIDANT)	N/A	N/A	16,800 gal	Exempt-additive
S-116	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1809, PETROX)	N/A	N/A	39 kgal	Exempt-additive
S-118	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1811, AO33)	N/A	N/A	17 kgal	Exempt-additive
S-119	Tank, Vertical Fixed Roof, GOLD, Organic liquid	N/A	N/A	16,800 gal	Exempt-additive

II. Equipment

Table II B - Exempt Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
	-other/not spec, (TK-1812, ANTI-ICE)				
S-121	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (D-807, POLYSULFIDE DRUM)	N/A	N/A	6468 gal	Exempt-additive
S-123	Tank, Vertical Fixed Roof, GOLD, (TK-1794,) Diesel Red Dye	N/A	N/A	8400 gal	Exempt (Regulation 2-1-123.3.2)
S-127	Loading, Motor Vehicle, Motor Vehicle Refueling Station, 1 Loading Arms (Total) and 0 Loading Arms (Gasoline), Distillate oil, Bottom/Submerged fill (DIESEL DISPENSER, SERVICES BLDG AREA)	Gilbarco Loading Arm	625-100		Exempt- distillate (Regulation 2-1-123.3.2)
S-140	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1204, MEA INVENTORY)	N/A	N/A	10600 gal	Exempt- additive (Regulation 2-1-123.3.2)
S-142	Tank, Vertical Fixed Roof, YELLOW, Fresh Caustic, TK-103	N/A	N/A	7 kgal	Exempt- (Regulation 2-1-123.2) additive
S-145	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1201, - MDEA ACCUMULATOR (20% SOLUTION))	N/A	N/A	47 kgal	Exempt- additive (Regulation 2-1-123.3.2)
S-171	Tank, Vertical Fixed Roof, YELLOW Out of Service	N/A	N/A	500 gal	Exempt
S-180	Tank, Vertical Fixed Roof, WHITE, Out of Service	N/A	N/A	3 kgal	Exempt
S-185	Tank, Vertical Fixed Roof, UN, Organic liquid - other/not spec, (Cationic Polymer Tank)	N/A	N/A	5 kgal	Exempt (Regulation 2-1-123.3.2)
S-192	Other petroleum products; Other, Waste water (TK 2052, Thickener)	N/A	N/A		Exempt- additive (Regulation 2-1-123.2)
S-201	Loading, Truck, 1 Loading Arm (Total), Waste water, Bottom/Submerged fill (Vacuum Truck Loading from Thickener Tank (S-192))	N/A	N/A		Exempt (Regulation 2-1-123.2)
S-214	Process drain - w/o controls, Waste water - (BIOX Aerator for Stripped Sour Water)	N/A	N/A		Exempt (Regulation 2-1-123.2)
S-215	Process drain - w/o controls, Waste water - (BIOX Clarifier for Stripped Sour Water)	N/A	N/A		Exempt (Regulation 2-1-123.2)
S-217	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt (Regulation 2-1-123.2)

II. Equipment

Table II B - Exempt Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
S-218	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt (Regulation 2-1-123.2)
S-219	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt (Regulation 2-1-123.2)
S-230	TK-4460 Dowtherm Storage Tank	N/A	N/A		Exempt (Regulation 2-1-123.3.2)
S-231	Aqueous Ammonia Storage Drum	N/A	N/A		Exempt (Regulation 2-1-123.2)
S-238	BIOX Aerator for stripped sour water TK-2083	N/A	N/A		Exempt (Regulation 2-1-123.2)
S-244	Tank, Vertical Fixed Roof, YELLOW, Aqueous Cationic Polymer Solution Tank TK-2317	N/A	N/A	5500 gallons	Exempt (Regulation 2-1-123.3.3)
S-245	Membrane Filtration Unit	Zenon	ZeeWeed MBR	400 gpm	Exempt (Regulation 2-1-123.2)
S-249	Manifolded Demulsifier Totes – OM13 (4 totes for P101's)	N/A	N/A	2,200 gal total (550 gal each)	Exempt (Regulation 2-1-123.3.2)
S-250	Manifolded Demulsifier Totes - Dock (3 totes)	N/A	N/A	790 gal total (2@230 gal, 1@330 gal)	Exempt (Regulation 2-1-123.3.2)
S-1019	Other petroleum products; Other (Laboratory Sample Waste Sinks)	N/A	N/A		Exempt
S-1046	Desalter	Custom	N/A		Exempt (Regulation 2-1-103)
S-32000	Combustion, Minor Sources, Natural gas (MINOR SOURCES)	N/A	N/A		Pilot gas to combustion devices, excluding flares - Exempt
S-32100	Refinery vacuum products (Fugitive Sources - Vacuum Producing Systems)	N/A	N/A		Exempt
S-32101	Refinery process vessels (Fugitive Sources – Process Vessel Depressurization)	N/A	N/A		Exempt
S-32102	Refinery valves/flanges (Fugitive Sources – Valves and Flanges)	N/A	N/A		Exempt
S-32103	Refinery pumps/compressors (Fugitive Sources - Pumps & Compressor Seals)	N/A	N/A		Exempt
S-32104	Refinery pressure relief valve (Fugitive Sources - Pressure Relief Valves)	N/A	N/A		Exempt

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Table II B - Exempt Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
S-32105	Refinery process drains (Fugitive Sources – Process Drains)	N/A	N/A		Exempt
S-32110	Refinery flaring/blowdown (Process Gas (Combustion) Emissions from Flares and Blowdown Systems)	N/A	N/A		Exempt
S-230	TK-4460 Dowtherm Storage Tank	N/A	N/A		Exempt
S-231	Aqueous Ammonia Storage Drum	N/A	N/A		Exempt
S-244	Tank, Vertical Fixed Roof, YELLOW, Aqueous Cationic Polymer Solution Tank TK-2317	N/A	N/A	5500 gallons	Exempt (Regulation 2-1-123.3.3)
S-245	Membrane Filtration Unit	Zenon	ZeeWeed MBR	400 gpm	Exempt (Regulation 2-1-123.2)
None	TK-1730 Flushing Oil Tank	N/A	N/A		Exempt
None	TK-1721 LPG Sphere	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	TK-1722 LPG Sphere	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	TK-1723 LPG Sphere	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	TK-1724 LPG Sphere	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	TK-1725 LPG Sphere	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	TK-1726 Refrigerated Butane Tank	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	D-1907 Methyl Mercaptan Odorant Tank, pressure tank	N/A	N/A		Exempt (Regulation 2-1-123.3.1)
None	D-3905 A/B Anhydrous Ammonia Drums	N/A	N/A		Exempt
None	LPG Truck Loading Rack	N/A	N/A		Exempt per BAAQMD (Regulation 2-1-123.3.1)
None	Octane Test Engines	N/A	N/A		Exempt
None	Post-BIOX Selenium Removal Facilities	N/A	N/A		Exempt
None	TK-2700 Fresh Caustic Tank	N/A	N/A		Exempt (Regulation 2-1-123.2)
None	Nitrogen Plant	N/A	N/A		Exempt

II. Equipment

Table II B - Exempt Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
None	Assorted Organic Liquid Storage Vessels and Containers Less Than 260 gallons	N/A	N/A		Exempt (Regulation 2-1-123.1)
None	Assorted Tanks, Vessels, and Pumping Equipment Associated with Aqueous Solutions	N/A	N/A		Exempt (Regulation 2-1-123.2)
None	Assorted Containers, Tanks, Reservoirs Reservoirs and Loading Equipment Associated with Heavy and/or Low Volatility Organic Liquids	N/A	N/A		Exempt (Regulation 2-1-123.3.2)
None	TK-2710 Fresh Acid Tank, 98% Sulfuric Acid	N/A	N/A		Exempt per BAAQMD (Regulation 2-1-123.2.)
None	Cogeneration Plant Cooling Tower	N/A	N/A		Exempt per BAAQMD (Regulation 2-1-128.4)

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	A-Cell Electrostatic Precipitator (ESP) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCRs, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 40 , 13, 50	BAAQMD 6-1-302 , SIP 6-302 (6-1-304/6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
2	B-Cell Electrostatic Precipitator (ESP) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCRs, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 40 , 13, 50	BAAQMD 6-1-302 , SIP 6-302 (6-1-304/6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
3	C-Cell Electrostatic Precipitator (ESP) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCRs, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 40 , 13, 50	BAAQMD 6-1-302 , SIP 6-302 (6-1-304/6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
44	D-Cell Electrostatic Precipitator (ESP) To Be Removed From Service Upon Startup	3, 4, 5, 6, 40 , 13, 50	BAAQMD 6-1-302 , SIP 6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during

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Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76		(6-1-304/6-304 during S-3 & S-4 sootblowing)		sootblowing
5	E-Cell Electrostatic Precipitator (ESP) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 40 , 13, 50	BAAQMD 6-1-302, SIP 6-302 (6-1-304/6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/6)	20% opacity < 3 min/hr, except <40% during sootblowing
6	Baghouse on WWTP Activated Carbon Bin	11	BAAQMD 6-1-301, SIP 6-301	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr
7	Baghouse on Util Lime Silo	12	BAAQMD 6-1-301, SIP 6-301	Visible emissions from Lime Silo	Ringelmann No. 1 < 3 min/hr
8	Baghouse on Coke Silos	8	BAAQMD 6-1-301, SIP 6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
9	Venturi Scrubber/Cyclone Separator on Coke Silos	8	BAAQMD 6-1-301, SIP 6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
10	Baghouse on Coke Silos	8	BAAQMD 6-1-301, SIP 6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
11	Vapor Recovery Compressor on TK-1735	124	BAAQMD 8-5-306, SIP 8-5-306	Tank pressure	95% recovery efficiency
12	Vapor Recovery Compressor on TK-1735	124	BAAQMD 8-5-306, SIP 8-5-306	Tank pressure	95% recovery efficiency
13	Vapor Recovery Compressor Flare Gas Recovery Header	9, 51, 52, 133, 160, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027, 1058	BAAQMD 6-1-301, SIP 6-301, BAAQMD 8-2-301 and BAAQMD Condition 19466.2d (for S160 only)	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	C-2801 Vapor Recovery Compressor on TK-2801	55	BAAQMD 8-5-306, SIP 8-5-306	Tank pressure	95% recovery efficiency
20	Tertiary Cyclone on FCCU Regenerator	5, 13	BAAQMD 6-1-302, SIP 6-302	Main Stack opacity CEM (1-520.5/6)	20% opacity < 3 min/hr
22	Cyclone on FCCU Catalyst Railcar Unloading Hopper	40	6-302	Main Stack opacity CEM (1-520.5/6)	20% opacity < 3 min/hr
23	Bag Filter on FCCU Catalyst Railcar Unloading System	40	6-301	Visible emissions from railcar unloading system	Ringelmann No. 1 < 3 min/hr
24	Tail Gas Hydrogenation Unit A on SGU A/B Trains (Beavon Section), preparing tail gas for A-56	1, 2, 157	9-1-307 NSPS J: 60.104(a)(2)(ii)	TRS and H2S monitor on A-56 Flexsorb Stack NSPS J: 60.105(a)(6)	250 ppm SO2 at 0% O2 for < 1 hour 300 ppmv TRS, calculated as SO2, dry, at 0% O2 for <12 hours
26	Vapor Recovery Compressor Flare Gas Recovery Header	9, 51, 52, 133, 160, 188, 189,	BAAQMD 6-1-301, SIP 6-301	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr

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Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
		211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027, 1058	BAAQMD 8-2-301 and BAAQMD Condition 19466.2d (for S160 only)		
27	Vent Disposal to SG-701 for FCCU Lube Oil Reservoir	159	BAAQMD 6-1-301, SIP 6-301	Visible emissions on Lube Oil Reservoir vent	Ringelmann No. 1 < 3 min/hr
27	Vent Disposal to SG-701 for FCCU Lube Oil Reservoir	159	8-2-301	VOC emissions on Lube Oil Reservoir vent	15 lb/day total carbon
29	Carbon Adsorption Unit (DVRU) on Marine Loading Dock	129	BAAQMD 8-44-304.1, SIP 8-44-301, BAAQMD Condition # 1709 [3]	VOC continuous monitor on DVRU stack (BAAQMD Condition # 1709 [5])	95% recovery efficiency, or 2 lb VOC/1,000 BBL loaded
36	Carbon Canisters on WWTP Upstream Diversion Tanks	193, 196, 205, 206	BAAQMD Condition # 11880 (2), 60.112b(a)(3) (ii), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/A-37 carbon beds (BAAQMD Condition # 11880 [3], [7])	15 lb/day total NMHC from A-36, A-37, and A-57, and A-65 averaged over one month (Reg. 8-2), 95% recovery efficiency (NSPS Kb, NESHAPS FF)
37	Carbon Canisters on WWTP On-Site Equipment	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition # 11879 (10), BAAQMD Condition # 11882 (10), COND ID# 11888 (10), BAAQMD Condition # 13319 (15), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/A-37 carbon beds (BAAQMD Condition # 11879 [11], [16], BAAQMD Condition # 11882 [11], [16], BAAQMD Condition # 11888 [11], [16], BAAQMD Condition # 13319 [16], [18])	15 lb/day total NMHC from A-36, A-37, and A-57, and A-65 averaged over one month (Reg. 8-2), 95% recovery efficiency (NESHAPS FF)
38	Vapor Balance System on truck loading WWTP sludge from TK-2069	202	BAAQMD Condition # 11884 (1)	Fugitive inspection	100 ppm leak standard
39	Vapor Balance System on truck loading WWTP sludge from TK-2051	201	BAAQMD Condition # 11883 (1)	Fugitive inspection	100 ppm leak standard
40	C-1702A Vapor Recovery Compressor on Coker Feed Tanks	65, 69, 70, 71	None (exempt tanks)	None	None
41	C-1702B Vapor Recovery Compressor on Coker Feed Tanks	65, 69, 70, 71	None (exempt tanks)	None	None
45	Selective Catalytic Reduction for F-4460	220	BAAQMD Condition # 10574 [23] superseded by BAAQMD Condition 24197 [23] effective upon startup of S-1061 and S-1062, 60.44b(a)(1)(i) BAAQMD	NOx/O2 CEM on F-4460 stack BAAQMD Condition # 10574 [27], superseded by BAAQMD Condition 24197 [27] effective upon startup of S-1061 and S-1062, 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)

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			10-9 (NSPS Db)		
46	<u>C-1704A</u> Vapor Recovery Compressor for on TK-1741	227	<u>BAAQMD 8-5-306, SIP 8-5-306</u> BAAQMD Condition # 10574 [42] superseded by <u>BAAQMD Condition 24197 [42] effective upon startup of S-1061 and S-1062;</u> 60.112b(a)(3) (ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
47	<u>C-1704B</u> Vapor Recovery Compressor for on TK-1741	227	<u>BAAQMD 8-5-306, SIP 8-5-306</u> BAAQMD Condition # 10574 [42] superseded by <u>BAAQMD Condition 24197 [42] effective upon startup of S-1061 and S-1062;</u> 60.112b(a)(3) (ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
51	Selective Catalytic Reduction for GT-702	37, 45	SIP 9-9-301.3, BAAQMD 9-301.1.3, BAAQMD Condition # 16386 [1]	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 <u>To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76</u>	3	9-10-304.1	NOx/O2 CEM on Main Stack (9-10-502)	150 ppm, dry, 3% O2 , daily average.
53	Thermal De-NOx System for F-102 <u>To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76</u>	4	9-10-304.1	NOx/O2 CEM on Main Stack (9-10-502)	150 ppm, dry, 3% O2 , daily average.
54	Baghouse on ESP fines vacuum conveying system <u>To Be Removed From Service Along With S-232 Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76</u>	232	<u>BAAQMD 6-1-301, SIP 6-301,</u> BAAQMD Condition # 12727 (3)	Visible emissions from vacuum conveying system	Ringelmann No. 1 < 3 min/hr
55	Baghouse on ESP fines storage bin <u>To Be Removed From Service Along With S-233 Upon Startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76</u>	233	<u>BAAQMD 6-1-301, SIP 6-301,</u> BAAQMD Condition # 12727 (4)	Visible emissions from storage bin	Ringelmann No. 1 < 3 min/hr
56	Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section)	1, 2, 157	9-1-307 NSPS J: 60.104(a)(2)(ii)	TRS and H2S monitor on Flexsorb Stack NSPS J: 60.105(a)(6)	250 ppm SO2 at 0% O2 for < 1 hour 300 ppmv TRS, calculated as SO2, dry, at 0% O2 for <12 hours
56	Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section)	157	<u>BAAQMD Condition 23446 (1)</u>	None	None

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
57	Thermal Oxidizer for WWTP On-Site equipment	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition # 11879 (3), (4), BAAQMD Condition # 11882 (3), (4); BAAQMD Condition # 11888 (3), (4); BAAQMD Condition # 13319 (3), (4); 61.349(a)(2)(i) (A)	Continuous temperature monitor on oxidizer outlet (BAAQMD Condition # 11879 [57], BAAQMD Condition # 11882 [5]; BAAQMD Condition # 11888 [5]; BAAQMD Condition # 13319 [5]; 61.354(c)(1))	1400 F minimum outlet temperature to ensure $\text{NO}_x \leq 25$ ppmvd @ 3% O ₂ CO ≤ 50 ppmvd @ 3% O ₂ >98.5 weight% destruction efficiency, (>95% destruction efficiency for NESHAPS FF)
<u>57</u>	<u>Thermal Oxidizer for WWTP On-Site equipment</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>61.349(a)(2)(i)(A)</u>	<u>Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11879 [7], 61.354(c)(1))</u>	<u>1400 F minimum outlet temperature to ensure >95% destruction efficiency (NESHAPS FF)</u>
<u>57</u>	<u>Thermal Oxidizer for WWTP On-Site equipment</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>BAAQMD Condition 11879 (5)</u>	<u>Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11879 [7])</u>	<u>1400 F minimum outlet temperature to ensure >98.5% destruction efficiency (Condition 11879[5])</u>
57	Thermal Oxidizer for WWTP On-Site equipment	194, 195	BAAQMD 8-8-302.3 SIP 8-8-302.3	BAAQMD Condition # 13319-11879 [65],[7]),	1400 F minimum outlet temperature to ensure >98.5 weight% destruction efficiency, (>95% combined collection and destruction efficiency for BAAQMD 8-8-302.3)
57	Thermal Oxidizer for WWTP On-Site equipment	197, 198	BAAQMD 8-8-307.2 SIP 8-8-307.2	BAAQMD Condition # 13319-11879 [56],[7]),	1400 F minimum outlet temperature to ensure >98.5 weight% destruction efficiency, (>70% combined collection and destruction efficiency for BAAQMD 8-8-307.2)
57	Thermal Oxidizer for WWTP On-Site equipment	131, 150, 199, 200	BAAQMD 8-5-306 <u>SIP 8-5-306</u>	(BAAQMD Condition # 11879 [65], [7] BAAQMD Condition # 11882 [5]; BAAQMD Condition # 11888 [5];)	1400 F minimum outlet temperature to ensure >98.5 weight% destruction efficiency, (>95% abatement efficiency for BAAQMD 8-5-306/ <u>SIP 8-5-306</u>)
57	Thermal Oxidizer for WWTP On-Site equipment	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition # 11879 (10), BAAQMD Condition # 11882 (10), COND ID# 11888 (10); BAAQMD Condition # 13319 (15); 61.349(a)(2)(ii)	Continuous temperature monitor on oxidizer outlet (BAAQMD Condition # 11879 [7+], Mass emissions determined from initial source test (BAAQMD Condition 11879 [12]), 116,)	15 lb/day total NMHC from A-36, A-37, and A-57, and A-65 averaged over one month (Reg. 8-2)-95% recovery efficiency (NESHAPS FF)

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
				BAAQMD Condition # 11882 [11], [16]; BAAQMD Condition # 11888 [11], [16]; BAAQMD Condition # 13319 [16], [18]	
58	Selective Catalytic Reduction for SG-1032	237	BAAQMD Condition # 16027 [12], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on SG-1032 stack (BAAQMD Condition #16027 [16]), 60.48b(b)(1)	9 ppm NOx, dry, 3% O2, 3-hr average, 0.1 lb/MMBTU (~84 ppmv NOx, 30-day average. NSPS Db, and 24-hr average. BAAQMD 10-9)
60	Selective Catalytic Reduction (SCR) System	1030, 1031	BAAQMD Condition # 19177- (18a), (19b); NSPS Db: 60.44b(1)(1); BAAQMD 10-4 (NSPS Db)	NOx CEM (COND# 19177-38; NSPS Db: 60.48b(b)(1); BAAQMD (NSPS Db)	Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 1 hr average. RFG/Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 3-hr average.
61	CO Oxidizing Catalyst System	1030, 1031	BAAQMD Condition # 19177- (18b), (19d)	CO CEM (COND# 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
62	Tail Gas Hydrogenation Unit B on SGU A/B Trains (Beavon Section), preparing tail gas for A-56	1, 2, 157	9-1-307 NSPS J: 60.104(a)(2)(ii)	TRS and H2S monitor on A-56 Flexsorb Stack NSPS J: 60.105(a)(6)	250 ppm SO2 at 0% O2 for < 1 hour 300 ppmv TRS, calculated as SO2, dry, at 0% O2 for <12 hours
62	Tail Gas Hydrogenation Unit B on SGU A/B Trains (Beavon Section), preparing tail gas for A-56	157	BAAQMD Condition 23446 (1)	None	None
<u>65</u>	<u>Thermal Oxidizer for WW Diversion Area sources</u>	<u>193, 196, 205, 206</u>	<u>BAAQMD 8-5-306 SIP 8-5-306</u>	<u>Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 [12])</u>	<u>1400 F minimum outlet temperature to ensure >95% recovery/destruction efficiency (BAAQMD 8-5-306)</u>
<u>65</u>	<u>Thermal Oxidizer for WW Diversion Area sources</u>	<u>193, 196, 205, 206</u>	<u>40 CFR Part 60.112b(a)(3)(ii)</u>	<u>Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 [12])</u>	<u>1400 F minimum outlet temperature to ensure >95%- destruction efficiency (NSPS Kb)</u>
<u>65</u>	<u>Thermal Oxidizer for WW Diversion Area sources</u>	<u>193, 196, 205, 206</u>	<u>40 CFR Part 61.349(a)(2)(i)(A)</u>	<u>Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 [12]), 61.354(c)(1)</u>	<u>1400 F minimum outlet temperature to ensure >95% destruction efficiency (NESHAPS FF)</u>
<u>65</u>	<u>Thermal Oxidizer for WW Diversion Area sources</u>	<u>193, 196, 205, 206</u>	<u>BAAQMD Condition 11880 (2)</u>	<u>Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 [12]); Mass emissions determined from initial source test (BAAQMD Condition 11880 [3])</u>	<u>15 lb/day total NMHC from A-36, A-37, A-57 and A-65, averaged over one month (Reg 8-2)</u>
<u>65</u>	<u>Thermal Oxidizer for WW Diversion Area sources</u>	<u>193, 196, 205, 206</u>	<u>BAAQMD Condition 11880 (9), (10)</u>	<u>Continuous temperature monitor on oxidizer outlet</u>	<u>1400 F minimum outlet temperature to ensure NOx <= 50 ppmvd @</u>

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
				(BAAQMD Condition 11880 [12])	15% O2 CO <= 350 ppmvd @ 15% O2
66	Cyclone Separator for Coke Silos	8	BAAQMD 6-1-301, SIP 6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
67	Caustic Scrubber	1035	BAAQMD Condition 24080	0.5 MMSCFD capacity	Typically 99% scrubbing efficiency
176	Baghouse on Brine Saturator Tank (future requirement only if dry salt vs. brine is added)	176	BAAQMD 6-1-301, SIP 6-301, BAAQMD Condition # 31411 3253 [1]	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr
1047	Prescrubber/Regenerative Amine Scrubber	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 63.b	Opacity monitor monitor or approved AMP	30% opacity < 6 min/hr
1047	Prescrubber/Regenerative Amine Scrubber	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 67	SO2/O2 CEM on FCCU/CKR Stack	21.4 ppmv, dry, 3% O2, 365-day average; 42.8 ppmv, dry, 3% O2, 7-day average; 440 ppmv dry, 3% O2, 1-calendar day average
1059	Selective Catalytic Reduction (SCR) System	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 66	NOx/O2 CEM on FCCU/CKR Stack	42.8 ppmv, dry, 3% O2, 365-day average; 85.6 ppmv, dry, 3% O2, 7-day average; 150 ppmv, dry, 3% O2, 1-calendar day average.
1060	Selective Catalytic Reduction (SCR) System	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 66	NOx/O2 CEM on FCCU/CKR Stack	42.8 ppmv, dry, 3% O2, 365-day average; 85.6 ppmv, dry, 3% O2, 7-day average; 150 ppmv, dry, 3% O2, 1-calendar day average.
1061	Selective Catalytic Reduction (SCR) System	1061	BAAQMD Condition 20820, Part 11	NOx/O2 CEM	5 ppmvd, 3% O2, 3-hr average
S-16	Acid Gas Flare	Backup abatement for A-24, 56 & 624, which abate sources 1, 2	See Table IV-A8.1	79,000 lb/hr Capacity	Typically 98% destruction efficiency
S-17	Butane Tank Flare	Backup abatement for the butane recovery compressors for TK-1726 (exempt)	See Table IV-A8.2	16,000 lb/hr Capacity	Typically 98% destruction efficiency
S-18	South Flare	Backup abatement for A-13/26, which abates sources 9, 51, 52, 133, 160, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012,	See Table IV-A8.1	1,200,000 lb/hr Capacity	Typically 98% destruction efficiency

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
		1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027, 1058			
S-19	North Flare	Backup abatement for A-13/26, which abates sources 9, 51, 52, 133, 160, 188, 189, 211, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027, 1058	See Table IV-A9	886,000 lb/hr Capacity	Typically 98% destruction efficiency
S-40	Utility Package Boiler, SG-2301	1010	BAAQMD Regulation 8-2-301, BAAQMD Condition 15512 (1)	Vent POC emissions from deaerator vents to S-40 and/or S-41 boilers, or to atmosphere	300 ppm and 15 lb/day total carbon, dry basis
S-41	Steam Generator, SG-2302	1010	BAAQMD Regulation 8-2-301, BAAQMD Condition 15512 (1)	Vent POC emissions from deaerator vents to S-40 and/or S-41 boilers, or to atmosphere	300 ppm and 15 lb/day total carbon, dry basis

III. GENERALLY APPLICABLE REQUIREMENTS

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

The dates in 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:
<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions..>

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 (07/19/2006)	N
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)	Y
BAAQMD · Regulation 2 · Rule 1	Permits, General Requirements (07/19/2006)	N
SIP Regulation 2 · Rule 1	Permits, General Requirements (SIP Approved) (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 2	Permits, New Source Review (06/15/2005)	N
SIP Regulation 2 · Rule 2	Permits, New Source Review (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 3	Permits, Power Plants (12/19/1979)	Y
BAAQMD · Regulation 2 · Rule 4	Permits, Emissions Banking (12/21/2004)	N
<u>SIP Regulation 2 · Rule 4</u>	<u>Permits, Emissions Banking (01/26/1999)</u>	<u>Y</u>

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 5	New Source Review of Toxic Air Contaminants 0 (07/01/2005)	N
SIP Regulation 2 · Rule 4	Permits, Emissions Banking (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 6	Permits, Major Facility Review (04/16/2003)	N
SIP Regulation 2 · Rule 6	Permits, Major Facility Review (06/23/1995)	Y
BAAQMD · Regulation 2 · Rule 9	Permits, Interchangeable Emission Reduction Credits (06/15/2005)	N
BAAQMD · Regulation 3	Fees (06/06/2007 12/03/2008)	N
SIP · Regulation 3	Fees (05/03/1984)	Y
BAAQMD · Regulation 4	Air Pollution Episode Plan (03/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (08/06/1990)	Y
BAAQMD · Regulation 5	Open Burning (03/06/2002)	N
SIP · Regulation 5	Open Burning (09/04/1998)	Y
BAAQMD · Regulation 6 · <u>Rule 1</u>	Particulate Matter: <u>General Requirements and Visible Emissions</u> (12/19/1990 12/05/2007)	Y N
<u>SIP: Regulation 6</u>	<u>Particulate Matter and Visible Emissions</u> 09/04/1998)	<u>Y</u>
BAAQMD · Regulation 7	Odororous 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 (07/20/2005)	N
SIP · Regulation 8 · Rule 2	Organic Compounds, Miscellaneous Operations (03/22/1995)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/2001)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/2002)	Y
BAAQMD · Regulation 8 · Rule 9	Organic Compounds, Vacuum Producing Systems (07/20/1983)	Y
BAAQMD · Regulation 8 · Rule 16	Organic Compounds, Solvent Cleaning Standards (10/16/2002)	Y
BAAQMD · Regulation 8 · Rule 28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries (12/21/2005)	N
SIP · Regulation 8 · Rule 28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries (05/24/2004)	Y
BAAQMD · Regulation 8 · Rule 40	Organic Compounds, Contaminated Soil and UST Removal (06/15/2005)	N
SIP · Regulation 8 · Rule 40	Organic Compounds, Contaminated Soil and UST Removal (04/19/2001)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/1995)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (03/22/1995)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements
(Not Requiring Routine Monitoring)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
	(07/17/2002)	
SIP - Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (02/26/2002)	Y
BAAQMD · Regulation 10-1-Subpart A	NSPS Incorporation by Reference Subpart A, General Provisions (02/16/2000)	Y
BAAQMD · Regulation 11 · Rule 2	Hazardous Pollutants, Asbestos Demolition and Renovation. (10/07/1998)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (07/11/1990)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (09/02/1981)	Y
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
NESHAPS Title 40 Part 61 Subpart M	NESHAPS, Asbestos (07/20/2004)	Y
Title 40 Part 68	Chemical Accident Prevention Provisions (04/09/2004)	Y
Title 40 Part 82 Subpart F	CFC Recycling and Emissions Reduction (04/13/2005)	Y
Title 40 Part 82 Subpart F 82.156	Recycling and Emissions Reductions - Required Practices (04/13/2005)	Y
Title 40 Part 82 Subpart F 82.161	Recycling and Emissions Reductions - Technician Certification (04/13/2005)	Y
Title 40 Part 82 Subpart F 82.166	Recycling and Emissions Reductions - Reporting and Recordkeeping Provisions (04/13/2005)	Y
40 CFR Part 82, Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (03/05/1998)	Y
Title 40 CFR Part 82 Subpart H 82.270(b)	Prohibitions, Halon (03/05/1998)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

**Table IV – Refinery
 Generally Applicable Requirements
 which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
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 (07/19/2006)		
2-1-429	Federal Emissions Statement	N	
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-110	Exemptions	Y	
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	

IV. Source Specific Applicable Requirements

**Table IV – Refinery
 Generally Applicable Requirements
 which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-331	Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-501	Records	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.2	Source Test Requirements; Tank degassing and cleaning abatement devices	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-404	Certification	Y	
8-5-405	Certification Reports: Information Required	Y	

IV. Source Specific Applicable Requirements

**Table IV – Refinery
 Generally Applicable Requirements
 which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-603	Determination of emissions	Y	
8-5-603.2	Source tests for tank degassing equipment	Y	
BAAQMD Regulation 8, Rule 8	Wastewater Collection and Separation Systems (09/15/2004)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
8-8-304	Sludge Dewatering Unit	N	
SIP Regulation 8, Rule 8	Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
8-8-304	Sludge Dewatering Unit	Y	
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (01/21/2004)		
8-10-301	Process Vessel Depressurizing.	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	N	
8-10-502	Concentration measurement using EPA Method 21	N	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (10/03/1984)		
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	

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**Table IV – Refinery
 Generally Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD · Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries	N	
9-1-313.2	Sulfur Removal and Recovery System	N	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries	Y ⁺	
9-1-313.2	Sulfur Removal and Recovery System	Y ⁺	
BAAQMD · Regulation 9, Rule 2	Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/06/1999)		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
9-2-601	Ground Level Monitoring	N	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-1</u>	<u>Subpart A. General Provisions</u>	<u>Y</u>	
<u>10-17</u>	<u>Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels</u>	<u>Y</u>	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994); NESHAPS Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste (01/05/1994)	Y	
NSPS Title	General Provisions (06/01/2006)		

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

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**Table IV – Refinery
 Generally Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart A			
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7(a)	Notification and Recordkeeping	Y	
60.7(b)	Maintain Records-CEMs	Y	
60.7(c)	Notification and record keeping.	Y	
60.7(d)	Notification and record keeping.	Y	
60.7(f)	Notification and record keeping.	Y	
60.7(g)	Notification and record keeping.	Y	
60.7(h)	Notification and record keeping.	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.17	Incorporated by Reference	Y	
60.18	General Control Device and Work Practice Requirements	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60 Subpart Kb	New Source Performance Standard for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction or Modification Commenced After July 23, 1984. (10/15/2003)		
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Measurement of gaps between tank wall and primary seal	Y	
60.113b(b)(1)(ii)	Measurement of gaps between tank wall and secondary seal	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
NESHAPS Title 40 Part 61 Subpart A	NESHAPS, General Provisions (04/09/2004)		
61.01	Lists of Pollutants and Applicability of Part 61	Y	
61.02	Definitions	Y	

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 Generally Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.03	Units and abbreviations	Y	
61.04	Address	Y	
61.05	Prohibited Activities	Y	
61.06	Determination of Construction or Modification	Y	
61.07	Application for Approval of Construction or Modification	Y	
61.08	Approval of construction or modification	Y	
61.09	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	
61.12	Compliance with Standards and Maintenance Requirements	Y	
61.13	Emission Tests and Waiver of Emission Tests	Y	
61.14	Monitoring requirements	Y	
61.15	Modification	Y	
61.18	Incorporation by reference	Y	
61.19	Circumvention	Y	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
R 61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Exemption for gaseous streams vented to fuel gas system	<u>Y</u>	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(a)	Requirements for calculating Total annual benzene quantity from facility waste	<u>Y</u>	
61.342(b)	Standards: General; Compliance for Facility-facilities with TAB > 10Mg/year in compliance by 4/7/93	Y	
61.342(c)(1)	Requirements for treating non-aqueous wastes (less than 10% water) for compliance with 61.342(e) compliance option. Standards: General; Treat benzene-containing waste streams in accordance with 61.342(e)(1)(i), 61.342(e)(1)(ii) and 61.342(e)(1)(iii)	Y	
40 CFR 61.342(e)(1)(i)	Standards: General; Remove or destroy benzene in accordance with	Y	
40 CFR 61.342(e)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment units operated in accordance with 61.342(e)(1)(i)	Y	
61.342(c)(1)(iii)	Requirements for treating non-aqueous wastes (less than 10% water) for compliance with 61.342(e) compliance option; Comply with 61.343 through 61.347 for waste management units used for wastes that will be recycled to the process or process feed tank. Standards: General; Comply with 61.343 through 61.347 for treatment units for recycled wastes. Recycled wastes subject to 61.342(e)	Y	

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**Table IV – Refinery
 Generally Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.342(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option Alternative to 61.342(e) and 61.342(d)	Y	
61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(e)(1) (Octane Analyzer Sump) Requirements for treating non-aqueous wastes (less than 10% water) for compliance with 61.342(e) compliance option – comply with 61.342(c)(1)	Y	
61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
61.342(e)(2)(i)	Standards: General; 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene. Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k)	Y	
61.342(g)	Compliance determined by review of facility records, results of tests and inspections	<u>Y</u>	
61.343(a)	Standards: Tanks, Fixed roof (applies if Baker tanks are used for non-aqueous wastes)	Y	
61.343(a)(1)	Standards: Tanks. Closed Vent System routed to Control Device	Y	
61.343(a)(1)(i)(B)	Standards: Tanks. Each opening closed and sealed	Y	
61.345(a)	Standards: Containers	Y	
61.345(a)(1)	Standards: Containers--Covers	Y	
61.345(a)(1)(ii)	Standards: Containers--Openings	Y	
61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
61.345(b)	Standards: Containers--Quarterly inspection	Y	
61.345(c)	Standards: Containers--Repairs	Y	
61.349	Standards: Closed vent systems and control devices (applies if Baker tanks are used for non-aqueous wastes)	<u>Y</u>	
61.350	Delay of repair	<u>Y</u>	
61.350(a)	Delay of repair; allowed if infeasible without shutdown	<u>Y</u>	
61.350(b)	Delay of repair; complete repairs before end of next unit shutdown	<u>Y</u>	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(a)	Determination of total annual benzene quantity (TAB) from facility waste (use procedure to determine target benzene quantity (TBQ) for aqueous wastes per 61.355(k)(1))	<u>Y</u>	
61.355(a)(1)	Requirements for determining annual benzene quantity for aqueous wastes (greater than 10% water)	<u>Y</u>	
61.355(a)(2)	Calculation of total annual benzene quantity from facility waste	<u>Y</u>	
61.355(a)(3)	Requirements if annual benzene quantity is greater than 11 ton/yr	<u>Y</u>	
61.355(a)(6)	Benzene quantity from streams generated less than once per year	<u>Y</u>	

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**Table IV – Refinery
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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.355(b)	Determine annual waste quantity at point of generation unless otherwise specified	Y	
61.355(b)(1)	Determination of annual waste quantity for sour water streams at exit from sour water stripper	Y	
61.355(b)(5)	Method to determine annual waste quantity – Option 1 – Historical records	Y	
61.355(b)(6)	Method to determine annual waste quantity – Option 2 – Maximum design capacity	Y	
61.355(b)(7)	Method to determine annual waste quantity – Option 3 – Measurements representative of maximum waste generation rate	Y	
61.355(c)	Determination of flow-weighted annual average benzene concentration		
61.355(c)(1)	Criteria for determination of flow-weighted annual average benzene concentration	Y	
61.355(c)(1)(i)	Criteria for determination of flow-weighted annual average benzene concentration ; Determination made at point of waste generation	Y	
61.355(c)(1)(i)(A)	Criteria for determination of flow-weighted annual average benzene concentration ; Determination for sour water streams	Y	
61.355(c)(1)(ii)	Criteria for determination of flow-weighted annual average benzene concentration; Volatilization of benzene by exposure to air shall not be used in determination	Y	
61.355(c)(1)(iii)	Criteria for determination of flow-weighted annual average benzene concentration; Mixing or diluting the waste stream shall not be used in determination	Y	
61.355(c)(1)(iv)	Criteria for determination of flow-weighted annual average benzene concentration; Determination shall be made prior to treatment	Y	
61.355(c)(1)(v)	Criteria for determination of flow-weighted annual average benzene concentration; Determination for mixed-phase wastes	Y	
61.355(c)(2)	Method for determining flow-weighted annual average benzene concentration – OPTION 1; Knowledge of the waste	Y	
61.355(c)(3)	Method for determining flow-weighted annual average benzene concentration – OPTION 2; Measurements of benzene concentration	Y	
61.355(k)	Determination of target benzene quantity (TBQ) for purposes of calculation required by 61.342(e)(2)	Y	
61.355(k)(1)	TBQ in waste streams not controlled for air emissions – use 61.355(a) methods	Y	
61.355(k)(2)	Waste streams controlled for air emissions	Y	
61.355(k)(3)	TBQ in waste streams generated less than once per year	Y	
61.355(k)(4)	TBQ – exclusion for waste streams entering an enhanced biodegradation unit	Y	
61.355(k)(5)	Calculate benzene quantity in waste streams controlled for air emissions	Y	
61.355(k)(6)	Calculation of target benzene quantity (TBQ)	Y	
61.355(k)(7)	Multiple counting of benzene quantity of a waste stream	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(b)	Recordkeeping Requirements ; Waste stream records	Y	

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**Table IV – Refinery
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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.356(b)(4)	Recordkeeping Requirements: Waste stream records for waste streams subject to 61.342(e) (Treat to 6 compliance option)	<u>Y</u>	
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	
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	
61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through 61.347, and 61.349	Y	
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	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(k)	Recordkeeping Requirements: Equipment complying with 61.351 or 61.352	<u>Y</u>	
61.357	Reporting Requirements	Y	
40 CFR 61.357(a)	Reporting Requirements: Total Annual benzene quantity	Y	
61.357(a)(1)	Annual Report [61.357(d)(2)] contents: Reporting of total annual benzene quantity from facility waste	<u>Y</u>	
61.357(a)(2)	Annual Report [61.357(d)(2)] contents: Table identifying each waste stream and whether controlled	<u>Y</u>	
61.357(a)(3)	Annual Report [61.357(d)(2)] contents: Information for uncontrolled streams	<u>Y</u>	
61.357(d)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(2)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste ; Annual report	Y	
61.357(d)(5)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste ; Annual report contents required	Y	
61.357(d)(6)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste ; Quarterly inspection certification	Y	
61.357(d)(7)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste ; Quarterly report	Y	
61.357(d)(7)(iii)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste ; Quarterly report	Y	
61.357(d)(7)(iv) (A)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste ; Quarterly report; Control device requirements; Thermal Oxidizer	Y	
61.357(d)(7)(iv)	Reporting Requirements: Facilities with TAB greater than or equal to	Y	

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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
(l)	10 Mg/yr or more total benzene in waste ; Quarterly report; Control device requirements; Carbon Adsorption		
61.357(d)(8)	Reporting Requirements: Facilities with <u>TAB greater than or equal to 10 Mg/yr or more total benzene in waste</u> ; Annual Report Summarizing Inspection Findings	Y	
61.357(e)	<u>Notification of alternative standard (61.351 or 61.352) Reporting Requirements for 61.351 and 61.352 equipment</u>	Y	
61.357(f)	Reporting Requirements for <u>equipment complying with 61.351 or 61.352</u> 61.351 control equipment	Y	
NESHAPS Title 40 CFR Part 63 Subpart A	General Provisions of MACT Standards (04/20/2006)		
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance test requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.11	Control device requirements	Y	
63.12	State authority and delegations	Y	
63.13	Addresses of State air pollution control agencies and EPA Regional Offices	Y	
63.14	Incorporations by reference	Y	
63.15	Availability of information and confidentiality	Y	
63.16	Performance Track Provisions	Y	
40 CFR Part 63 Subpart B	National Emission Standards for Hazardous Air Pollutants for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005)		
63.52	Approval process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	Y	

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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	
NESHAPS Title 40 Part 63 Subpart G	SOCMI HON G (6/23/2003) <u>Requirements for Tanks Subject to 40 CFR Part 63, Subpart CC</u>		
63.120(b)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals primary seal gap measurement	Y	
63.120(b)(1)(iii)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals secondary seal gap	Y	
63.120(b)(1)(iv)	Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal inspections prior to tank refill after service	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
63.640(c)	Applicability and Designation of Affected Source--Includes all emission points at Refinery	Y	
63.640(d)	Applicability and Designation of Affected Source--Exclusions	Y	
63.640(f)	Applicability and Designation of Affected Source	Y	
63.640(g)	Applicability and Designation of Affected Source--Exempt Processes	Y	
63.640(h)	Applicability and Designation of Affected Source--Compliance dates	Y	
63.640(i)	Applicability and Designation of Affected Source--New petroleum refining process unit requirements	Y	
63.640(j)	Applicability and Designation of Affected Source--Changes to existing petroleum refining process units	Y	
63.640(k)	Applicability and Designation of Affected Source--Additional requirements for new or changed sources	Y	
63.640(l)	Applicability and Designation of Affected Source--Additions of equipment (i.e. process vents, storage vessels, etc) in Group 1 sources not subject to 63.640(i) or (k).	Y	
63.640(m)	Applicability and Designation of Affected Source--Changes causing Group 2 emission points to become Group 1 points	Y	

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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
63.641	Definitions:	Y	
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	
63.642(i)	Existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) for other emission points.	Y	
63.642(k)	Existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g)	Y	
63.647(a)	Wastewater Provisions	Y	
63.647(b)	Wastewater Provisions	Y	
63.647(c)	Wastewater Provisions	Y	
63.654(a)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
63.654(e)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
63.654(g)	Periodic Reporting and Recordkeeping Requirements	Y	
63.654(h)	Reporting and Recordkeeping Requirements--Other reports	Y	
63.654(i)	Reporting and Recordkeeping Requirements--Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	Hazardous Air Pollutants	Y	
NESHAPS Title 40 Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units	Y	
63.1561(a)(1)	Applicable to petroleum refineries located at a major source of HAP emissions	Y	
63.1561(a)(2)	Applicable to a major source of HAPs with potential to emit 10 tpy any single HAP or 25 tpy of any combination of HAPs	Y	
63.1562(a)	Applicable to any new, reconstructed, or existing source at a petroleum refinery	Y	

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Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63.1562(b)	Applicable affected sources include catalytic regenerators, catalytic reforming units, sulfur recovery units, and bypass lines serving affected units	Y	
63.1562(e)	An affected source is existing if it is not new or reconstructed.	Y	
63.1562(f)	Subpart UUU does not apply to:	Y	
63.1562(f)(4)	equipment associated with bypass lines including low leg drains, high point bleed, analyzer vents, open-ended valves or lines, or pressure relief valves needed for safety reasons.	Y	
63.1562(f)(5)	gaseous streams routed to a fuel gas system.	Y	
63.1563(b)	Comply with the emission limitations and work practice standards for existing sources by April 11, 2005.	Y	
63.1563(e)	Meet the notification requirements according to 63.1574 and 40 CFR Part 60 Part 63, Subpart A.	Y	
<u>40 CFR Part 98</u>	<u>Mandatory Greenhouse Gas Reporting</u>	<u>Y</u>	
<u>Subpart A</u>	<u>General Provisions</u>	<u>Y</u>	
<u>Subpart C</u>	<u>General Stationary Fuel Combustion Sources</u>	<u>Y</u>	
<u>Subpart Y</u>	<u>Petroleum Refineries</u>	<u>Y</u>	
<u>Subpart MM</u>	<u>Suppliers of Petroleum Products</u>	<u>Y</u>	
<u>CA Code of Regulation, Rirle 17, Subchapter 10, Article 2</u>	<u>Mandatory Reporting of Greenhouse Gas Emission</u>	<u>N</u>	
<u>BAAQMD Condition 19466</u>	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
<u>BAAQMD Condition # 19466-4Part 4</u>	The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable.—[Regulation 2-1-403] <u>Startup and shutdown notification (2-1-403)</u>	N	
<u>BAAQMD Condition #20762</u>			
Part 1	<u>Verify true vapor pressure (8-5-117) Refinery vapor pressure limits</u>	Y	

IV. Source Specific Applicable Requirements

**Table IV – Refinery
 Generally Applicable Requirements
 which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
	for organic liquids. (8-5-117)		
Part 2	Comply with Regulation 8-5 when switching different service Refinery vapor pressure requirement for organic liquids. (Regulation 8, Rule 5)	Y	
Part 3	Recordkeeping requirements (8-5-117)	Y	
BAAQMD Condition 24198	Supersedes BAAQMD Condition 19466		
Part 4	Startup and shutdown notification (2-1-403)	N	

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

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/1990/12/05/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
6-1-330	Sulfur Recovery Units (SO3, H2SO4 Emission Limitation)	N Y	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-330	Sulfur Recovery Units (SO3, H2SO4 Emission Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operation at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	N	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	Y	
BAAQMD Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-14</u>	<u>Subpart J. Standards of Performance for Petroleum Refineries</u>	<u>Y</u>	
40 CFR Part 60 Subpart J	Standards of Performance for Petroleum Refineries (08/17/1989/06/24/2008)	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)	Owner or operator subject to provisions of this subpart	Y	
60.104(a)(2)	Claus sulfur recovery plant standard	Y	
60.104(a)(2)(ii)	Emission limits of 300 ppmv reduced sulfur compounds and 10 ppmv H ₂ S, calculated as ppmv SO ₂ , dry basis, at 0% excess air	Y	
<u>60.105</u>	<u>Monitoring of emissions and operations</u>	<u>Y</u>	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(6)	Claus sulfur recovery units with reduction control systems not followed by incineration require continuous emissions monitoring and recording of reduced sulfur as SO ₂ (dry basis, 0% excess air) and O ₂ concentrations (only necessary if O ₂ is more than 0.25%).	Y	
60.105(a)(6)(i)	CEM Span values are 450 ppm reduced sulfur and 25% O ₂ .	Y	
60.105(a)(6)(ii)	Performance Standards; RATA Methods 15, 15A and 3	Y	
60.105(e)	Definition of units of measure and averaging method for hourly averages	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(except Opacity), and periods of excess emissions		
60.105(e)(4)	SO ₂ from Claus sulfur recovery plants – excess emissions definition	Y	
60.105(e)(4)(ii)	TRS 12-hour average, measured as SO ₂ by CEM, must not exceed 300 ppmv	Y	
60.106(a)	Reference method for performance test: Appendix A	Y	
60.106(f)	Compliance standard determination methodology for SO ₂ and H ₂ S	Y	
60.106(f)(2)	Method 15 shall be used to determine the reduced sulfur and H ₂ S concentrations	Y	
60.106(f)(3)	Oxygen measurement and correction per Method 3 or 3A	Y	
60.107(fe)	Reporting and recordkeeping: semiannually reports due to Administrator within 30 days of six-month period.	Y	
60.107(gf)	Certification statement required in semiannual report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (01/12/2004)		
Performance Specification 5	TRS Continuous Emission Monitoring Systems (01/12/2004)	Y	
NSPS Title 40 CFR Part 60 Appendix F			
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
NESHAPS Title 40 CFR Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (4/20/2006)	Y	
63.1568	Requirements for HAP Emissions from Sulfur Recovery Units	Y	
63.1568(a)	Emission Limitations and Work Practice Standards	Y	
63.1568(a)(1)	Emission limitation options for Sulfur Recovery Units not already subject to NSPS for SO ₂ : 1) Meet NSPS requirements (Option 1); or 2) meet total reduced sulfur emission limits (Option 2).	Y	
63.1568(a)(1)(i)	Meet emission limitation of 300 ppmvd of reduced sulfur compounds calculated as SO ₂ at zero percent excess air, for reduction control system without incineration (Table 29, Option 1, Item 2.b).	Y	
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O2 emissions. Calculate reduced sulfur emissions as SO2, dry basis, at zero percent excess air (Table 31, Option 1, Item 2.b).	Y	
63.1568(b)(2)	Performance Test: measure concentration of reduced sulfur for a reduction control system without incineration, by collecting monitoring data every 15 minutes for 24 consecutive hours (Table 32, Option 1, Item 1).	Y	
63.1568(b)(4)	Correct reduced sulfur samples to zero percent excess air with specified equation.	Y	
63.1568(b)(5)	Demonstrate Initial Compliance: each 12-hour rolling average concentration of reduced sulfur compounds measured by the CEM during the initial performance test is no more than 300 ppmvd reduced sulfur limit calculated as SO2 at zero percent excess air (Table 33, Option 1, Item 2.b).	Y	
63.1568(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1568(b)(7)	Submit Notice of Initial Compliance Status detailing the results of the initial compliance demonstration.	Y	
63.1568(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: collect hourly average reduced sulfur monitoring data and maintain 300 ppmvd calculated as SO2 at zero percent excess air (Table 34, Option 1, Item 2.b).	Y	
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1, Item 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1569(b)(1)	Conduct performance test for automated bypass line (Table 37, Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 37, Option 1, Item 1.a).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(c)	Demonstrate continuous compliance with the work practice standards for bypass lines.	Y	
63.1569(c)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly (Table 39, Option 1, Item 1).	Y	
63.1569(c)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1)(i).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	63.7(e)(1)		
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission monitoring systems.	Y	
63.1572(a)(1)	Install, operate, and maintain CEMS in accordance with Table 40	Y	
63.1572(a)(3)	CEMS must complete a minimum of one cycle of operation for each successive 15-minute period.	Y	
63.1572(a)(4)	CEMS data must be reduced to 1-hour averages computed from 4 or more data points equally spaced over each 1-hour period.	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(c)	Automated data compression system (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Deviations using CEMS or COMS	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
63.1576(b)(1)	Records described in 63.10(b)(2)(vi) through (xi) – CMS data	Y	
63.1576(b)(3)	Previous (i.e., superseded) versions of performance evaluation plan	Y	
63.1576(b)(5)	Records of deviations	Y	
63.1576(d)	Records required by Tables 34, 35 and 39 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart.	Y	
BAAQMD Condition #125			

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date																		
Part 1	Provide APCO access to S-1 sulfur production data. 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. (Banked POC credits)	Y																			
Part 2	Deleted. (Basis: Owner/Operator installed the best available H2S monitor which was approved by the APCO.)	Y																			
Part 3	S-1 tail gas incinerator feed restrictions. 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. (9-1-313.2, odors)	Y																			
Part 4	S-1 tail gas treatment requirements. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-62 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur. (Basis: Regulation (9-1-313.2, odors))	Y																			
Part 5	Natural gas firing emission limits A-24 and A-62. The total emissions from natural gas firing in both A-24 and A-62 Reducing Gas Generators shall not exceed the following limits: <table border="0"> <tr> <td>Pollutant</td> <td>lb/hr</td> <td>tons/yr</td> </tr> <tr> <td>NOx:</td> <td>1.842</td> <td>8.064</td> </tr> <tr> <td>CO:</td> <td>1.547</td> <td>6.774</td> </tr> <tr> <td>POC:</td> <td>0.102</td> <td>0.444</td> </tr> <tr> <td>PM10:</td> <td>0.140</td> <td>0.613</td> </tr> <tr> <td>SO2:</td> <td>0.011</td> <td>0.048</td> </tr> </table> (Basis: Offsets, Cumulative Increase) 	Pollutant	lb/hr	tons/yr	NOx:	1.842	8.064	CO:	1.547	6.774	POC:	0.102	0.444	PM10:	0.140	0.613	SO2:	0.011	0.048	Y	
Pollutant	lb/hr	tons/yr																			
NOx:	1.842	8.064																			
CO:	1.547	6.774																			
POC:	0.102	0.444																			
PM10:	0.140	0.613																			
SO2:	0.011	0.048																			
Part 6	A-24 Reducing Gas Generator firing limits. The Owner/Operator of A-24 shall fire the Reducing Gas Generator only with natural Gas not to exceed a maximum heat release of 9.1 MMBtu/hr, a maximum natural gas fuel rate of 13,500 SCFH, and a maximum annual natural gas consumption of 108 MMSCF (12,275 annual average). (Basis: Cumulative Increase, Toxics)	Y																			
Part 7	Initial source test requirement for parallel operation of tail gas units. Within 60 days of the start up of the parallel operation of A-24 and A-62 Tail Gas Treatment Units, the Owner/Operator shall conduct an initial District approved source test to demonstrate the emission changes caused by the operation of the two Beavon Process Reducing Gas Generators simultaneously. This source test shall measure the NOx, CO, POC, PM10 and SO2 emissions before and after the startup of the second Tail Gas Treatment unit. Reasonable steps shall be taken in the refinery to maximize natural gas firing to both units. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test. (Basis: Compliance Determination, Cumulative	Y																			

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Increase, Offsets)		
Part 8	Annual NOx source test (Cumulative Increase, Offsets) The owner/operator shall conduct a District approved source test annually to demonstrate compliance with the NOx limits of Part 5. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test.	Y	
Part 9	NSPS J H2S limit and initial performance test requirement In order to determine compliance with the 10 ppm H2S limit of NSPS Subpart J 40 CFR 60.104(a)(2)(ii), the owner/operator shall conduct an initial District approved source test. The owner/operator shall obtain approval for all source test procedures from the District's source Test Section prior to conducting any tests. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: NSPS 60.104(a)(2)(ii) and 60.8, Consent Decree XII.B Paragraphs 221, 222 & 224.)	Y	
<u>BAAQMD Condition #19466</u>	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 0% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. 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] S-1, S-2, S-8, S-11, S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	
Part 8	The Permit Holder shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO3 and H2SO4). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-330] S-1 and S-2 Sulfur Plants annual grain loading source test (BAAQMD 6-1-330/SIP 6-330)	Y	
<u>BAAQMD Condition 20820</u>			<u>Upon activation of Condition 20820, Part 21.a triggers</u>
Part 42	Sulfur production limit of 240 short tons/day, daily maximum and 87,600 short tons/year (Cumulative increase, odors)	<u>Y</u>	
Part 43	Daily sulfur production records for each individual sulfur plant train (Recordkeeping)	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 24198	Supersedes BAAQMD Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 3	S-1, S-2, S-8, S-11 and S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	
Part 8	S-1 and S-2 Sulfur Plants annual grain loading source test (BAAQMD 6-1-330/SIP 6-301)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	NSPS 40 Part 60 Appendix B (01/12/2004)		
Performance Specification 5	TRC Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
NESHAPS Title 40 Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (4/20/2006)	Y	
63.1568	Requirements for HAP Emissions from Sulfur Recovery Units	Y	
63.1568(a)	Emission Limitations and Work Practice Standards	Y	
63.1568(a)(1)	Emission limitation options for Sulfur Recovery Units not already subject to NSPS for SO₂: 1) Meet NSPS requirements (Option 1); or 2) meet total reduced sulfur emission limits (Option 2).	Y	
63.1568(a)(1)(i)	Meet emission limitation of 300 ppmvd of reduced sulfur compounds calculated as SO₂ at zero percent excess air, for reduction control system without incineration (Table 29, Option 1, Item 2.b).	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O ₂ emissions. Calculate reduced sulfur emissions as SO ₂ , dry basis, at zero percent excess air (Table 31, Option 1, Item 2.b).	Y	
63.1568(b)(2)	Performance Test: measure concentration of reduced sulfur for a reduction control system without incineration, by collecting monitoring data every 15 minutes for 24 consecutive hours (Table 32, Option 1, Item 1).	Y	
63.1568(b)(4)	Correct reduced sulfur samples to zero percent excess air with specified equation.	Y	
63.1568(b)(5)	Demonstrate Initial Compliance: each 12-hour rolling average concentration of reduced sulfur compounds measured by the CEM during the initial performance test is no more than 300 ppmvd reduced sulfur limit calculated as SO ₂ at zero percent excess air (Table 33, Option 1, Item 2.b).	Y	
63.1568(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1568(b)(7)	Submit Notice of Initial Compliance Status detailing the results of the initial compliance demonstration.	Y	
63.1568(e)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1568(e)(1)	Demonstrate Continuous Compliance with Emission Limitation: collect hourly average reduced sulfur monitoring data and maintain 300 ppmvd calculated as SO ₂ at zero percent excess air (Table 34, Option 1, Item 2.b).	Y	
63.1568(e)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1, Item 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line (Table 37, Option 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 37, Option 1, Item 1.a).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(e)	Demonstrate continuous compliance with the work practice standards for bypass lines.	Y	
63.1569(e)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly (Table 39, Option 1, Item 1).	Y	
63.1569(e)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(e)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1)(i).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	are not violations if operating in accordance with SSMP		
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission monitoring systems:	Y	
63.1572(a)(1)	Install, operate, and maintain CEMS in accordance with Table 40	Y	
63.1572(a)(3)	CEMS must complete a minimum of one cycle of operation for each successive 15 minute period.	Y	
63.1572(a)(4)	CEMS data must be reduced to 1-hour averages computed from 4 or more data points equally spaced over each 1-hour period.	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(e)	Automated data compression system (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(e)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Deviations using CEMS or COMS	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records—General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
63.1576(b)(1)	Records described in 63.10(b)(2)(vi) through (xi)—CMS data	Y	
63.1576(b)(3)	Previous (i.e., superseded) versions of performance evaluation plan	Y	
63.1576(b)(5)	Records of deviations	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1576(d)	Records required by Tables 34, 35 and 39 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart.	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions0 (12/19/199012/05/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-330	Sulfur Recovery Units (SO3, H2SO4 Emission Limitation)	N	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-330</u>	<u>Sulfur Recovery Units (SO3, H2SO4 Emission Limitation)</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (06/08/1999)		
9-1-313	Sulfur Removal Operation at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
<u>10-14</u>	<u>Subpart A. Standards of Performance for Petroleum Refineries</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart J	Standards of Performance for Petroleum Refineries (08/17/1989)06/24/2008	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)	Owner or operator subject to provisions of this subpart	Y	
60.104(a)(2)	Claus sulfur recovery plant standard	Y	
60.104(a)(2)(ii)	Emission limits of 300 ppmv reduced sulfur compounds and 10 ppmv H ₂ S, calculated as ppmv SO ₂ , dry basis, at 0% excess air	Y	
<u>60.105</u>	<u>Monitoring of emissions and operations</u>	<u>Y</u>	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(6)	Claus sulfur recovery units with reduction control systems not followed by incineration require continuous emissions monitoring and recording of reduced sulfur as SO ₂ (dry basis, 0% excess air) and O ₂ concentrations (only necessary if O ₂ is more than 0.25%).	Y	
60.105(a)(6)(i)	CEM Span values are 450 ppm reduced sulfur and 25% O ₂ .	Y	
60.105(a)(6)(ii)	Performance Standards; RATA Methods 15, 15A and 3	Y	
60.105(e)	Definition of units of measure and averaging method for hourly averages (except Opacity), and periods of excess emissions	Y	
60.105(e)(4)	SO ₂ from Claus sulfur recovery plants – excess emissions definition	Y	
60.105(e)(4)(ii)	TRS 12-hour average, measured as SO ₂ by CEM, must not exceed 300 ppmv	Y	
60.106(a)	Reference method for performance test: Appendix A	Y	
60.106(f)	Compliance standard determination methodology for SO ₂ and H ₂ S	Y	
60.106(f)(2)	Method 15 shall be used to determine the reduced sulfur and H ₂ S concentrations	Y	
60.106(f)(3)	Oxygen measurement and correction per Method 3 or 3A	Y	
60.107(fe)	Reporting and recordkeeping: semiannually reports due to Administrator within 30 days of six-month period.	Y	
60.107(gf)	Certification statement required in semiannual report	Y	
NSPS Title 40 CFR Part 60 Appendix B			
Performance Specification 5	TRS Continuous Emission Monitoring Systems <u>(01/12/2004)</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 CFR Part 60 Appendix F			
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
NESHAPS Title 40 CFR Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (4/20/2006)	Y	
63.1568	Requirements for HAP Emissions from Sulfur Recovery Units	Y	
63.1568(a)	Emission Limitations and Work Practice Standards	Y	
63.1568(a)(1)	Emission limitation options for Sulfur Recovery Units not already subject to NSPS for SO ₂ : 1) Meet NSPS requirements (Option 1); or 2) meet total reduced sulfur emission limits (Option 2).	Y	
63.1568(a)(1)(i)	Meet emission limitation of 300 ppmvd of reduced sulfur compounds calculated as SO ₂ at zero percent excess air, for reduction control system without incineration (Table 29, Option 1, Item 2).	Y	
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O ₂ emissions. Calculate reduced sulfur emissions as SO ₂ , dry basis, at zero percent excess air (Table 32, Option 1, Item 2.b).	Y	
63.1568(b)(2)	Performance Test: measure concentration of reduced sulfur for a reduction control system without incineration, by collecting monitoring data every 15 minutes for 24 consecutive hours (Table 32, Option 1, Item 1).	Y	
63.1568(b)(4)	Correct reduced sulfur samples to zero percent excess air with specified equation.	Y	
63.1568(b)(5)	Demonstrate Initial Compliance: each 12-hour rolling average concentration of reduced sulfur compounds measured by the CEM during the initial performance test is no more than 300 ppmvd calculated as SO ₂ at zero percent excess air (Table 33, Option 1, Item 2.b).	Y	
63.1568(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Notification of Compliance Status report.		
63.1568(b)(7)	Submit Notice of Initial Compliance Status detailing the results of the initial compliance demonstration.	Y	
63.1568(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1568(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: collect hourly average reduced sulfur monitoring data and maintain 300 ppmvd calculated as SO ₂ at zero percent excess air Table 34, Option 1, Item 2.b).	Y	
63.1568(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36. Option 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line (Table 27, Option 1, Item 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 38, Option 1, Item 1.a).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(c)	Demonstrate continuous compliance with the work practice standards for bypass lines.	Y	
63.1569(c)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly (Table 39, Option 1, Item 1).	Y	
63.1569(c)(2)	Demonstrate continuous compliance with the work practice standard for	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.		
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission monitoring systems.	Y	
63.1572(a)(1)	Install, operate, and maintain CEMS in accordance with Table 40	Y	
63.1572(a)(3)	CEMS must complete a minimum of one cycle of operation for each successive 15-minute period.	Y	
63.1572(a)(4)	CEMS data must be reduced to 1-hour averages computed from 4 or more data points equally spaced over each 1-hour period.	Y	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	compliance report if they contain the required information		
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
63.1576(b)(1)	Records described in 63.10(b)(2)(vi) through (xi) – CMS data	Y	
63.1576(b)(3)	Previous (i.e., superseded) versions of performance evaluation plan	Y	
63.1576(b)(5)	Records of deviations	Y	
63.1576(d)	Records required by Tables 34, 35 and 39 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart.	Y	
BAAQMD Condition #126			
Part 1	Provide APCO access to S-2 sulfur production data Reasonable access to 24 hour sulfur production data shall be provided whenever the APCO or his designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: (9-1-313.2)]	Y	
Part 2	The Owner/Operator shall operate and maintain the best available H2S monitoring system on the Tail Gas Clean-up Unit exhaust stack. [Basis: 9-1-313.2, odors]	Y	
Part 3	S-2 tail gas incinerator feed restrictions Except during upset conditions, the motor operated valve (MOV-003), which allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15), shall not be open when either of the sour gas feed valves (F052, F054) to source (S-2) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: (9-1-313.2)]	Y	
Part 4	S-2 tail gas treatment requirements (9-1-313.2) Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date																		
	Treatment Units (A-24, A-62 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur.																				
Part 5	Natural gas firing mass emission limits A-24 and A-62. The total emissions from natural gas firing in both A-24 and A-62 Reducing Gas Generators shall not exceed the following limits: <table border="0"> <tr> <td>Pollutant</td> <td>lb/hr</td> <td>tons/yr</td> </tr> <tr> <td>NOx:</td> <td>1.842</td> <td>8.064</td> </tr> <tr> <td>CO:</td> <td>1.547</td> <td>6.774</td> </tr> <tr> <td>POC:</td> <td>0.102</td> <td>0.444</td> </tr> <tr> <td>PM10:</td> <td>0.140</td> <td>0.613</td> </tr> <tr> <td>SO2:</td> <td>0.011</td> <td>0.048</td> </tr> </table> (Basis: Offsets, Cumulative Increase) 	Pollutant	lb/hr	tons/yr	NOx:	1.842	8.064	CO:	1.547	6.774	POC:	0.102	0.444	PM10:	0.140	0.613	SO2:	0.011	0.048	Y	
Pollutant	lb/hr	tons/yr																			
NOx:	1.842	8.064																			
CO:	1.547	6.774																			
POC:	0.102	0.444																			
PM10:	0.140	0.613																			
SO2:	0.011	0.048																			
Part 6	A-62 Reducing Gas Generator firing limits. The Owner/Operator of A-62 shall fire the Reducing Gas Generator only with natural Gas not to exceed a maximum heat release of 9.1 MMBtu/hr, a maximum natural gas fuel rate of 13,500 SCFH, and a maximum annual natural gas consumption of 108 MMSCF (12,275 annual average). (Basis: Cumulative Increase, Toxics)	Y																			
Part 7	Initial source test requirement for parallel operation of tail gas units. Within 60 days of the start up of the parallel operation of A-24 and A-62 Tail Gas Treatment Units, the Owner/Operator shall conduct an initial District approved source test to demonstrate the emission changes caused by the operation of the two Beavon Process Reducing Gas Generators simultaneously. This source test shall measure the NOx, CO, POC, PM10 and SO2 emissions before and after the startup of the second Tail Gas Treatment unit. Reasonable steps shall be taken in the refinery to maximize natural gas firing to both units. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test. (Basis: Compliance Determination, Cumulative Increase, Offsets)	Y																			
Part 8	Annual NOx source test (Cumulative Increase, Offsets). The owner/operator shall conduct a District approved source test annually to demonstrate compliance with the NOx limits of Part 5. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test.	Y																			
Part 9	NSPS J H2S limit and initial performance test requirement (NSPS 60.104(a)(2)(ii) and 60.8, Consent Decree XII.B Paragraphs 221, 222 & 224). In order to determine compliance with the 10 ppm H2S limit of NSPS Subpart J 40 CFR 60.104(a)(2)(ii), the owner/operator shall conduct an initial District approved source test. The owner/operator shall obtain approval for all source test procedures from the District's source Test Section prior to conducting any tests. The owner/operator shall notify the District's source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: NSPS 60.104(a)(2)(ii) and 60.8,	Y																			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Consent Decree XII.B Paragraphs 221, 222 & 224.)</u>		
BAAQMD Condition #19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 3	<u>The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. 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]</u> <u>S-1, S-2, S-8, S-11, S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)</u>	Y	
Part 8	<u>The Permit Holder shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO3 and H2SO4). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-330] S-1 and S-2 Sulfur Plants annual grain loading source test (BAAQMD 6-1-330/SIP)</u>	Y	
BAAQMD Condition 20820			<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 42</u>	<u>Sulfur production limit of 240 short tons/day, daily maximum and 87,600 short tons/year (Cumulative increase, odors)</u>	<u>Y</u>	
<u>Part 43</u>	<u>Daily sulfur production records for each individual sulfur plant train (Recordkeeping)</u>	<u>Y</u>	
BAAQMD Condition 24198	<u>Supersedes BAAQMD Condition 19466</u>		<u>Upon activation of Condition 20820, Part</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
			21.a triggers
Part 3	S-1, S-2, S-8, S-11, and S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP)	Y	
Part 8	S-1 and S-2 Sulfur Plants annual grain loading source test (BAAQMD 6-1-330/SIP)	Y	
NSPS Title 40 Part 60 Appendix B	NSPS 40 Part 60 Appendix B (01/12/2004)		
Performance Specification 5	FRS Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
NESHAPS Title 40 Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (4/20/2006)	Y	
63.1568	Requirements for HAP Emissions from Sulfur Recovery Units	Y	
63.1568(a)	Emission Limitations and Work Practice Standards	Y	
63.1568(a)(1)	Emission limitation options for Sulfur Recovery Units not already subject to NSPS for SO ₂ : 1) Meet NSPS requirements (Option 1); or 2) meet total reduced sulfur emission limits (Option 2).	Y	
63.1568(a)(1)(i)	Meet emission limitation of 300 ppmvd of reduced sulfur compounds calculated as SO ₂ at zero percent excess air, for reduction control system without incineration (Table 29, Option 1, Item 2).	Y	
63.1568(a)(2)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O ₂ emissions. Calculate reduced sulfur emissions as SO ₂ , dry basis, at zero percent excess air (Table 32, Option 1, Item 2.b).	Y	
63.1568(b)(2)	Performance Test: measure concentration of reduced sulfur for a reduction control system without incineration, by collecting monitoring data every 15 minutes for 24 consecutive hours (Table 32, Option 1,	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Item 1).		
63.1568(b)(4)	Correct reduced sulfur samples to zero percent excess air with specified equation.	Y	
63.1568(b)(5)	Demonstrate Initial Compliance: each 12-hour rolling average concentration of reduced sulfur compounds measured by the CEM during the initial performance test is no more than 300 ppmvd calculated as SO₂ at zero percent excess air (Table 33, Option 1, Item 2.b).	Y	
63.1568(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1568(b)(7)	Submit Notice of Initial Compliance Status detailing the results of the initial compliance demonstration.	Y	
63.1568(e)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1568(e)(1)	Demonstrate Continuous Compliance with Emission Limitation: collect hourly average reduced sulfur monitoring data and maintain 300 ppmvd calculated as SO₂ at zero percent excess air Table 34, Option 1, Item 2.b).	Y	
63.1568(e)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1569	Requirements for HAP Emissions from Bypass Lines	Y	
63.1569(a)(1)	Meet work practice standards for bypass lines by selecting one of four options.	Y	
63.1569(a)(1)(i)	Install an automated system in the bypass line (Table 36, Option 1)	Y	
63.1569(a)(3)	Prepare an Operations, Maintenance, and Operating Plan, and operate at all times in accordance with the Plan.	Y	
63.1569(b)	Initial Compliance Demonstration with work practice standards	Y	
63.1569(b)(1)	Conduct performance test for automated bypass line (Table 27, Option 1, Item 1)	Y	
63.1569(b)(2)	Demonstrate initial compliance with work practice standard for bypass line with automated system (Table 38, Option 1, Item 1.a).	Y	
63.1569(b)(3)	Demonstrate initial compliance with the work practice standard for automated bypass lines (Option 1) by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1569(b)(4)	Submit the Notification of Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1569(e)	Demonstrate continuous compliance with the work practice standards for bypass lines.	Y	
63.1569(e)(1)	Demonstrate continuous compliance with the work practice standards for automated bypass lines by continuously monitoring and recording whether flow is present in the bypass line, and recording whether the device is operating properly (Table 39, Option 1, Item 1).	Y	
63.1569(e)(2)	Demonstrate continuous compliance with the work practice standard for automated bypass lines by complying with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(e)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(a)	Monitoring installation, operation, and maintenance requirements for continuous emission monitoring systems.	Y	
63.1572(a)(1)	Install, operate, and maintain CEMS in accordance with Table 40	Y	
63.1572(a)(3)	CEMS must complete a minimum of one cycle of operation for each successive 15-minute period.	Y	
63.1572(a)(4)	CEMS data must be reduced to 1-hour averages computed from 4 or more data points equally spaced over each 1-hour period.	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(e)	Automated data compression system (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(iii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(e)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Deviations using CEMS or COMS	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records—General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
63.1576(b)(1)	Records described in 63.10(b)(2)(vi) through (xi)—CMS data	Y	
63.1576(b)(3)	Previous (i.e., superseded) versions of performance evaluation plan	Y	
63.1576(b)(5)	Records of deviations	Y	
63.1576(d)	Records required by Tables 34, 35 and 39 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart.	Y	

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

**To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

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

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2 Rule 9 ·	Permits, Interchangeable Emission Reduction Credits (06/15/2005)		
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 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/1990 12/05/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
6-1-611 ¹	General Operations (process weight rate limitation)	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-311 ¹	General Operations (process weight rate limitation)	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 Rule 10 ·	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-303.1	Interim Emission Limit for CO Boilers (Federal Requirements)	Y	
9-10-304	Emission Limit for CO Boilers, NOx	N	
9-10-304.1	Emission Limit for CO Boilers, NOx	N	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 302, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	

¹ Emission limits for particulate matter apply to S-4 FCCU and S-5 Fluid Coker, but are monitored at S-3 and S-4 CO Boilers

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	NY	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 – Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators & Process Heaters (03/29/200104/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Condition Co ndition #11030			
Part 1	Definition of startup period (Cumulative Increase)The start-up of the CO Furnaces (S-3 and S-4) shall not exceed 72 hours. [Basis: Cumulative Increase]	Y	
Part 2	Definition of shutdown period (Cumulative Increase)The shutdown of the CO Furnaces (S-3 and S-4) shall not exceed 120 hours. [Basis: Cumulative Increase]	Y	
Part 3	NOx concentration emission limit (BARCT, Cumulative Increase)When the Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 150 ppm, dry at 3% oxygen, based on an operating day average. [Basis: BARCT, Cumulative Increase]	Y	
Part 4	Startup and shutdown recordkeeping (Cumulative Increase)To demonstrate compliance with Conditions #1 and 2, the start-up time and shutdown time of S-3 and S-4 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
Part 6	NOx abatement requirements (Cumulative Increase) Effective from May 31, 1995, the NOx emissions from the CO Furnaces (S-3 and S-4) shall be abated at all times by the A-52 and/or A-53 Thermal DeNOx Systems. [Basis: Cumulative Increase]	Y	
Part 7	Refinery fuel gas plus CO annual firing rate limits (Cumulative Increase)The Owner/Operator shall limit the total consumption of refinery	N	

IV. Source Specific Applicable Requirements

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

To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	fuel gas plus CO at each source to no more than the following: S-3 CO Furnace: 46.3 Million therms per year (Basis: Cumulative Increase) S-4 CO Furnace: 22.7 Million therms per year (Basis: Cumulative Increase)		
BAAQMD Condition #19466			
Part 5a	The particulate emissions from the S-3 and S-4 CO Boilers shall be abated by at least four of the five A-1 through A-5 Electrostatic Precipitators, except as indicated in Part 5b and exhausted through the main stack (P-1). [Basis: Regulation 6-1-301 and Regulation 6-1-304]. S-3 and S-4 CO Boiler abatement requirements (abatement by at least four of five ESPs) (BAAQMD 6-1-301/SIP 6-301 and BAAQMD 6-1-304/SIP 6-304)	Y	
Part 5b	Operation with 3 of 4 precipitators allowed for no more than 30 days per year. [Basis: Regulation 6-1-301 and Regulation 6-1-304]. S-3 and S-4 CO Boiler abatement requirements (allowance for abatement by at least three of five ESP for 30 days/year) (BAAQMD 6-1-301/SIP 6-301 and BAAQMD 6-1-304/SIP 6304)	N	
Part 5e	Source test requirement for 3 precipitator operation. [Basis: Regulations 6-1-301, 6-1-304 and 6-1-310]. Source test during operation of 3 of 5 ESPs (BAAQMD 6-1-301/SIP 6-301, BAAQMD 6-1-304/SIP 6-304, and BAAQMD 6-1-310/SIP 6-310)	N	
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41 [Basis: Monitoring] S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1)	Y	
BAAQMD Condition 20820			
Part 21	Emission limitations triggered by (Project implementation);	Y	
Part 21.a.iii	Operation of new CO Furnaces, F-105 or F-106 (S-1059 or S-1060)	Y	
Part 21.b	FCCU/CKR Scrubber and Main Stacks emission limitations (Main Stack 3-year baseline)	Y	
Part 21.b.i	NOx – 77.9 ppm @ 3% O₂, 365-day average, 779.9 tons/calendar year	Y	
Part 21.b.ii	SO₂ – 440 ppm @ 3% O₂, 365-day average, 6, 132 tons/calendar year	Y	
Part 21.b.iii	PM10 – 40 lb/hr, 115.4 tons/calendar year	Y	
Part 21.b.iv	NMOCPOC – 13.4140-79 tons/calendar year	Y	
Part 21.b.v	CO – 35.2 ppm @ 3% O₂, 365-day average, 214.5 tons/calendar year	Y	
Part 21.c	PM10 and POCNMOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	Y	

IV. Source Specific Applicable Requirements

Table IV - A3
Source-Specific Applicable Requirements CO Furnaces
S-3, S-4 (F-101, F-102)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 21.d	Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)	Y	
BAAQMD Condition #22156			
Part 1	The owner/operator of Electrostatic Precipitators (ESP) A-1, A-2, A-3, A-4 and A-5 that abate CO Boilers S-3 and S-4 shall conduct continuous ESP Opacity monitoring for reasonable assurance of compliance with Regulations 6-310. (Basis: Regulation 2-6-503) Continuous opacity monitoring for A-1, A-2, A-3, A-4, and A-5 (2-6-503)	Y	
Part 3	Operate A-1, A-2, A-3, A-4 and A-5 that abate CO boilers S-3 and S-4 with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-310. (basis: Regulation 2-6-503) Opacity emission limit for A-1, A-2, A-3, A-4, and A-5 (2-6-503)	Y	

Table IV - A3.1
Source-Specific Applicable Requirements
PS Furnaces
S-1059, S-1060 (F-105, F-106)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV - A3.1
Source-Specific Applicable Requirements
PS Furnaces
S-1059, S-1060 (F-105, F-106)

1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (SIP Approved) (6/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-304	Tube Cleaning	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
6-1-311²	General Operations (process weight rate limitation)	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (12/5/2007)		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-311²	General Operations (process weight rate limitation)	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		

² Emission limits for particulate matter apply to S-5 FCCU and S-6 Fluid Coker, but are monitored at S-1059 and S-1060 PS Furnaces

IV. Source Specific Applicable Requirements

Table IV - A3.1
Source-Specific Applicable Requirements
PS Furnaces
S-1059, S-1060 (F-105, F-106)

9-10-303.1	Interim Emission Limit for CO Boilers (Federal Requirements)	<u>Y</u>	
9-10-304	Emission Limit for CO Boilers, NOx	<u>N</u>	
9-10-304.1	Emission Limit for CO Boilers, NOx	<u>N</u>	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	<u>N</u>	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	<u>N</u>	
9-10-504	Records	<u>N</u>	
9-10-504.1	Records for sources subject to 9-10-301, 302, 304, or 305, or effective 7/17/2007, 9-10-303	<u>N</u>	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	<u>N</u>	
9-10-505.1	Reporting Requirements	<u>N</u>	
9-10-505.2.1	Reporting Requirements	<u>N</u>	
9-10-601	Determination of Nitrogen Oxides	<u>Y</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	<u>N</u>	
9-10-603	Compliance Determination	<u>Y</u>	
SIP Regulation	NOx and CO from Petroleum Refinery Boilers, Steam Generators & Process Heaters (04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	<u>Y</u>	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	<u>Y</u>	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	<u>Y</u>	
<u>BAAQMD</u>			
<u>Condition</u>			
<u>20820</u>			
<u>Part 21</u>	<u>Emission limitations triggered by (Project implementation):</u>	<u>Y</u>	
<u>Part 21.a.iii</u>	<u>Operation of new CO Furnaces, F-105 or F-106 (S-1059 or S-1060)</u>	<u>Y</u>	
<u>Part 21.b</u>	<u>FCCU/CKR Scrubber and Main Stacks emission limitations (Main Stack 3-year baseline)</u>	<u>Y</u>	
<u>Part 21.b.i</u>	<u>NOx – 77.9 ppm @ 3% O2, 365-day average, 779.9 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.ii</u>	<u>SO2 – 440 ppm @ 3% O2, 365-day average, 6, 132 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.iii</u>	<u>PM10 – 40 lb/hr, 115.4 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.iv</u>	<u>NMOCPOC – 13.4140.79 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.v</u>	<u>CO – 35.2 ppm @ 3% O2, 365-day average, 214.5 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.c</u>	<u>PM10 and NMOCPOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)</u>	<u>Y</u>	
<u>Part 21.d</u>	<u>Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)</u>	<u>Y</u>	
<u>Part 22</u>	<u>SO2 emission reduction banking (Banking)</u>	<u>Y</u>	
<u>Part 61</u>	<u>Abatement requirements and vapor flow limit for S-5, S-6, S-1059, and S-1060 (Cumulative increase)</u>	<u>Y</u>	
<u>Part 62</u>	<u>Fire only refinery fuel gas, CO gas and/or natural gas (BACT)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - A3.1
Source-Specific Applicable Requirements
PS Furnaces
S-1059, S-1060 (F-105, F-106)

Part 63	Summary table of combustion emission limits for S-1059 and S-1060 PS Furnaces (Cumulative increase, BACT, offsets)	Y	
Part 63.a	Monitoring requirements for combustion emission limits (NOx, CO, O2, and SO2 CEMS, PM10 and NMOC source test data, FCCU/CKR Scrubber stack flow rate data) (Monitoring, BACT)	Y	
Part 63.b	Install, calibrate, and maintain COMS or submit AMP for opacity at outlet of FCCU/CKR Stack to comply with Regulation 6-1-310 (Regulation 2-6-503)	Y	
Part 63.c	Annual emissions reporting (Reporting requirements)	Y	
Part 63.d	Ammonia slip emission limit for A-1059 and A-1060 SCRs ((Toxics, BACT)	Y	
Part 63.e	Initial source test to demonstrate compliance with ammonia limit (Toxics, source tests)	Y	
Part 64	Fuel flow monitoring (Monitoring)	Y	
Part 65	Definitions of startup, shutdown, emergency bypass and bypass ((Cumulative Increase)	Y	
Part 65.a	Startup definition	Y	
Part 65.b	Shutdown definition	Y	
Part 65.c	Emergency bypass definition	Y	
Part 65.d	Bypass definition	Y	
Part 66	NOx emission limits for S-1059 and S-1060 (BACT)	Y	
Part 67	SO2 emission limits for S-1059 and S-1060 (BACT)	Y	
Part 68	CO, PM10, and NMOCPOC emission limits for S-1059 and S-1060 (BACT)	Y	
Part 69	NOx, SO2, CO, and O2 CEM and air flow meter requirements (CEM monitoring)	Y	
Part 70	Initial NOx, SO2, CO, NMOCPOC, and PM10 source test requirements (compliance determination via source tests)	Y	
Part 71	Firing rate limits for S-1059 and S-1060 (Cumulative increase)	Y	
Part 72	Quarterly NMOCPOC/PM10 source test requirement (Periodic monitoring)	Y	
Part 73	Source test and CEM test protocols and approval (Source test compliance verification and accuracy)	Y	
Part 74	Sulfuric acid mist (SAM) emission limit (PSD)	Y	
Part 75	Initial SAM source test requirement (Compliance demonstration, PSD avoidance)	Y	
Part 76	Shutdown S-3, S-4, and A-1 through A-5 (Offsets)	Y	
BAAQMD Condition 24198			
Part 5	Abatement requirements (Regulation 6-1-301 and 6-1-304)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD - Regulation 1	General Provisions and Definitions (07/19/2006)		
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) (6/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/1990 12/05/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y	
6-1-302	Opacity Limitation per BAAQMD Regulation 1-520.5	Y	
6-1-305	Visible Particles	Y	
6-1-310	Particulate Weight Limitation	Y	
6-1-311	General Operations (Process Weight Rate Limitation)	Y	
6-1-401	Appearance of Emissions	Y	
6-1-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	Y	
6-1-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-302	<u>Opacity Limitation per BAAQMD Regulation 1-520.5</u>	Y	
6-305	<u>Visible Particles</u>	Y	
6-310	<u>Particulate Weight Limitation</u>	Y	
6-311	<u>General Operations (Process Weight Rate Limitation)</u>	Y	
6-401	<u>Appearance of Emissions</u>	Y	
6-501	<u>Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5</u>	Y	
6-502	<u>Data, Records and Reporting per BAAQMD Regulation 1-520.5</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	Y	
BAAQMD · Regulation 9 Rule 1	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)</u>		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO ₂	Y	
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Claiming Kilns	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
BAAQMD Condition #19466			
Part 6	The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-310]	Y	
Part 9	The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed 4.10P^{0.67} lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	from date of entry and shall be made available to District staff upon request. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-311]		
Part 15	The owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner	N	
<u>40 CFR Part 60 Subpart A</u>	<u>General Provisions (06/01/2006)</u>	Y	
<u>60.13(i)</u>	<u>Alternative monitoring procedures</u>	Y	
<u>40 CFR Part 60 Subpart J</u>	<u>NSPS Subpart J for Petroleum Refineries (06/24/2008)</u>	Y	
<u>60.102</u>	<u>Standard for Particulate Matter</u>	Y	
<u>60.102(a)(1)</u>	<u>Limit on particulate matter from catalyst regenerator (Compliance demonstration through Alternate Monitoring Plan for Site-Specific Test Plan in accordance with 60.13(i) approved by EPA January 10, 2007).</u>	Y	
<u>60.102(a)(2)</u>	<u>Limit on opacity of gases from catalyst regenerator</u>	Y	
<u>60.103</u>	<u>Standard for Carbon Monoxide</u>	Y	
<u>60.103(a)</u>	<u>Limit on carbon monoxide emissions from catalyst regenerator</u>	Y	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	Y	
<u>60.105(a)(1)</u>	<u>Continuous opacity monitoring requirement for catalyst regenerator emissions to atmosphere. (Compliance demonstration through Alternate Monitoring Plan for alternate COMS location on Main Stack approved by EPA February 18, 2009).</u>	Y	
<u>60.105(a)(2)</u>	<u>Continuous CO concentration monitoring requirement for catalyst regenerator emissions to atmosphere (Compliance demonstration through Alternate Monitoring Plan for CO monitoring in accordance with 60.13(i) approved by EPA January 10, 2007).</u>	Y	
<u>60.105(c)</u>	<u>Average coke burn-off rate (Mg (tons) per hour) and hours of operation</u>	Y	
<u>60.105(e)</u>	<u>Determine and report periods of excess emissions</u>	Y	
<u>60.105(e)(1)</u>	<u>Excess opacity emission definition for 60.7(c)</u>	Y	
<u>60.106</u>	<u>Test Methods and Procedures</u>	Y	
<u>60.106(b)(3)</u>	<u>Coke burn-off rate calculation</u>	Y	
<u>60.107</u>	<u>Reporting and Recordkeeping Requirements</u>	Y	
<u>60.107(f)</u>	<u>Semi-annual compliance report</u>	Y	
<u>60.107(g)</u>	<u>Certification of 60.107(f) report</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (01/12/2004)		
Performance Specification 1	Specifications and Test Procedures for Continuous Opacity Monitoring Systems in Stationary Sources (08/10/2000)	Y	
NESHAPS Title 40 CFR Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (4/20/2006)	Y	
63.1564	Requirements for HAP Emissions from Catalytic Cracking Units	Y	
63.1564(a)	Emission Limitations and Work Practice Standards	Y	
63.1564(a)(1)	Emission limitation options for Catalytic Cracking Units not already subject to NSPS for PM: 1) Meet NSPS requirements (Option 1); meet PM emission limit (Option 2); meet Nickel lb/hr emission limit (Option 3); or meet Nickel coke burn-off limit (Option 4).	Y	
63.1564(a)(1)(i)	Meet NSPS requirements (Table 1, Option 1, Item 2) (Compliance demonstration through Alternate Monitoring Plans in accordance with 60.13(i) for Site-Specific Test Plan approved by EPA June 22, 2005 and for alternate COMS location on Main Stack a. approved by EPA February 18, 2009).	Y	
63.1564(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1564(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1564(b)(1)	Install Continuous Monitoring System to measure and record the opacity of emissions from each catalyst regenerator vent (Table 3, Option 1, Item 2).	Y	
63.1564(b)(2)	Performance Test: measure PM emissions for a unit without a wet scrubber. Calculate coke burn-off rate and PM emission rate (Table 4, Option 1, Item 2). (Compliance demonstration through Alternate Monitoring Plan for Site-Specific Test Plan in accordance with 60.13(i) approved by EPA January 10, 2007).	Y	
63.1564(b)(4) (i)	Compute PM emission rate (1.0 lb/1,000 lbs) of coke burn-off using Equations 1, 2, and 3 of 63.1564.	Y	
63.1564(b)(5)	Demonstrate Initial Compliance with the 1.0 lb PM/1,000 lbs coke burn-off limit (Table 5, Option 1, Item 2)	Y	
63.1564(b)(6)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Compliance Status report.		
63.1564(b)(7)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1564(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1564(c)(1)	Demonstration Continuous Compliance with Emission Limitation: For PM emission limit determine and record daily average coke burn-off rate and hours of operation for catalyst regenerator; and maintain PM emission rate below 1.0 lb/1,000 lbs of coke burn-off. Collect continuous opacity monitoring system data and maintain each 6-minute average at or below 30 percent except that one 6-minute average during a 1-hour period can exceed 30 percent (Table 6, Option 1, Item 2).	Y	
63.1564(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan.	Y	
63.1565	Requirements for Organic HAP Emissions from Catalytic Cracking Units	Y	
63.1565(a)	Emission Limitations and Work Practice Standards	Y	
63.1565(a)(1)	Emission limitation options for Catalytic Cracking Units not already subject to NSPS for CO: 1) Meet NSPS requirements (Option 1); or 2) meet CO emission limit (Option 2).	Y	
63.1565(a)(1)(i)	Meet NSPS requirements (Table 8, Option 1, Item 2.a).	Y	
63.1565(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan.	Y	
63.1565(a)(4)	Emission limitation and operating limits for organic HAP emissions do not apply during periods of planned maintenance preapproved by applicable permitting authority.	Y	
63.1565(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1565(b)(1)	Install Continuous Monitoring System	Y	
63.1565(b)(1)(ii)	For catalytic cracking units not already subject to the CO NSPS: continuous monitoring emission monitoring or continuous parameter monitoring is not required if emissions are vented to a boiler or process heater with a design heat input capacity of at least 44 MW.	Y	
63.1565(b)(1)(iii)	For catalytic cracking units not already subject to the CO NSPS: continuous monitoring emission monitoring or continuous parameter monitoring is not required if emissions are vented to a boiler or process heater in which all emissions are introduced into the flame zone.	Y	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(b)	Operate in compliance with the opacity limits at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(h)(1).	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1)(i).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(3)	Conduct each performance evaluation in accordance with the requirements of 63.8(e)	Y	
63.1571(b)(4)	Do not conduct performance tests during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(b)	Monitoring installation, operation, and maintenance requirements for continuous opacity monitoring systems.	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(a)	Alternative to calculate regenerator exhaust rate based on air flow rate to the regenerator, and CO/CO2, and O2 in exhaust flow	Y	
63.1573(c)	Automated data compression system (optional)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(e)	Where CEM or COMS is used	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(b)	Records for continuous emission monitoring systems	Y	
63.1576(b)(1)	Records described in 63.10(b)(2)(vi) through (xi) – CMS data	Y	
63.1576(b)(2)	Monitoring data for COMS during performance evaluation	Y	
63.1576(b)(3)	Previous (i.e., superseded) versions of performance evaluation plan	Y	
63.1576(b)(5)	Records of deviations	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1576(d)	Records required by Tables 6, 7, 13, 14 and 39 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart.	Y	
<u>40 CFR Part 64</u>	<u>Compliance Assurance Monitoring (10/22/1997)</u>		
<u>64.2(a)</u>	<u>General Applicability</u>	<u>Y</u>	
<u>64.2(a)(1)</u>	<u>subject to an emission limitation or standard for regulated air pollutant</u>	<u>Y</u>	
<u>64.2(a)(2)</u>	<u>uses a control device to achieve compliance with emission limitation</u>	<u>Y</u>	
<u>64.2(a)(3)</u>	<u>has pre-control device potential to emit > major source threshold</u>	<u>Y</u>	
<u>64.2(b)(1)</u>	<u>Exemption emission limitations or standards</u>	<u>Y</u>	
<u>64.2(b)(1)(i)</u>	<u>emission limitation proposed after 11/15/1990</u>	<u>Y</u>	
<u>64.2(b)(1)(vi)</u>	<u>Title V permit specifies a continuous compliance determination method for emission limitation</u>	<u>Y</u>	
<u>BAAQMD Condition 19466</u>	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers, except for Condition 19466, Parts 6 and 9 which are to be superseded by BAAQMD Condition 20820, Part 72</u>		
<u>Part 6</u>	<u>The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-1-310] S-5 FCCU and S-6 Coker annual grain loading source test (BAAQMD 6-1-310/SIP 6-310)</u>	<u>Y</u>	
<u>Part 9</u>	<u>The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed 4.10P^{0.67} lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-8, compliance with Regulation 6-301 shall be demonstrated</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-1-311] S-5 FCCU, S-6 Coker, and S-8 Coke Storage annual PM mass emissions source test (BAAQMD 6-1-311/SIP 6-311)		
Part 15	The owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner. Opacity monitoring requirements (1-520)]	<u>Y</u>	
<u>BAAQMD Condition 20820</u>			
Part 21	<u>Emission limitations triggered by (Project implementation):</u>	<u>Y</u>	
Part 21.a.ii	<u>Operation of third air blower, or oxygen injection to FCCU (S-5) or Coker Burner (S-6)</u>	<u>Y</u>	
Part 21.b	<u>FCCU/CKR Scrubber and Main Stack emission limitations (Main Stack 3-year baseline)</u>	<u>Y</u>	Upon activation of Condition 20820, Part 21.a triggers
Part 21.b.i	<u>NOx – 77.9 ppm @ 3% O2, 365-day average, 779.9 tons/calendar year</u>	<u>Y</u>	
Part 21.b.ii	<u>SO2 – 440 ppm @ 3% O2, 365-day average, 6,132 tons/calendar year</u>	<u>Y</u>	
Part 21.b.iii	<u>PM10 – 4026.3 lb/hr, 115.4 tons/calendar year</u>	<u>Y</u>	
Part 21.b.iv	<u>NMOCPOC – 13.4140.79 tons/calendar year</u>	<u>Y</u>	
Part 21.b.v	<u>CO – 35.234.6 ppm @ 3% O2, 365-day average, 214.5-210.7 tons/calendar year</u>	<u>Y</u>	
Part 21.c	<u>PM10 and NMOCPOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)</u>	<u>Y</u>	
Part 21.d	<u>Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)</u>	<u>Y</u>	
Part 22	<u>SO2 emission reduction banking (Banking)</u>	<u>Y</u>	
Part 46	<u>Daily maximum and annual average throughput limits for FCCU, S-5 (Cumulative increase)</u>	<u>Y</u>	
Part 47	<u>Throughput recordkeeping requirements for FCCU, S-5 (Recordkeeping)</u>	<u>Y</u>	
Part 61	<u>Abatement requirements and vapor flow limit for S-5, S-6, S-1059, and S-1060 (Cumulative increase)</u>	<u>Y</u>	
<u>BAAQMD Condition 24198</u>	<u>Supersedes BAAQMD Condition 19466</u>		<u>Upon activation of Condition</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
			<u>20820, Part 21.a triggers</u>
<u>Part 15</u>	<u>Opacity monitoring requirements (1-520)</u>	<u>Y</u>	
<u>BAAQMD Condition #24239</u>			
<u>Part 1</u>	<u>Applicability to 40 CFR Part 60, Subpart J for CO, PM, and Opacity (Basis: Consent Decree VII Paragraph 96)</u>	<u>Y</u>	
<u>Part 2</u>	<u>CO Emission Limit (Basis: Consent Decree Paragraph 94)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Particulate Matter Emission Limit (Basis: Consent Decree Paragraph 95)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Limits not applicable during startup, shutdown or malfunction (Basis: Consent Decree Paragraph 102)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Notification requirements not applicable (Basis: Consent Decree Paragraph 100)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Initial performance testing for particulate matter satisfied by compliance demonstration for 40 CFR Part 63, Subpart UUU (Basis: Consent Decree Paragraph 101)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Alternate Monitoring Plans for PM, opacity, and CO (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.6	Continuous Emission Monitoring	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
1-604	Opacity Measurements	N	
SIP Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6- 1 -301	Ringelmann No. 1 Limitation	N Y	
6- 1 -302	Opacity Limitation per BAAQMD Regulation 1-520.65	N Y	
6- 1 -305	Visible Particles	N Y	
6- 1 -310	Particulate Weight Limitation	N Y	
6- 1 -311	General Operations (Process Weight Rate Limitation)	N Y	
6- 1 -401	Appearance of Emissions	N Y	
6- 1 -501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.65	N Y	
6- 1 -502	Data, Records and Reporting per BAAQMD Regulation 1-520.65	N Y	
6- 1 -601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N Y	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation per BAAQMD Regulation 1-520.6	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.6	Y	
6-502	Data, Records and Reporting per BAAQMD Regulation 1-520.6	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO ₂	Y	
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(1)	Applicability of Miscellaneous Process Vents	Y	
63.643(a)	Miscellaneous Process Vent Provisions	Y	
63.643(a)(2)	Control device requirements	Y	
63.643(b)	Boiler or process heater requirements	Y	
63.644(a)	Monitoring Provisions for Miscellaneous Process Vents	Y	
63.644(a)(3)	Boiler or process heater > 44 MW	Y	
63.645(d)	Testing is not required.	Y	
63.645(d)(1)	Test methods and procedures for miscellaneous process vents	Y	
63.645(d)(2)	Test methods and procedures for miscellaneous process vents	Y	
63.645(i)	Test Methods and Procedures for Miscellaneous Process--Compliance determination for visible emission	Y	
40 CFR Part 64	Compliance Assurance Monitoring (10/22/1997)		
64.2(a)	General Applicability	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
64.2(a)(1)	<u>subject to an emission limitation or standard for regulated air pollutant</u>	<u>Y</u>	
64.2(a)(2)	<u>uses a control device to achieve compliance with emission limitation</u>	<u>Y</u>	
64.2(a)(3)	<u>has pre-control device potential to emit > major source threshold</u>	<u>Y</u>	
64.2(b)(1)	<u>Exemption emission limitations or standards</u>	<u>Y</u>	
64.2(b)(1)(vi)	<u>Title V permit specifies a continuous compliance determination method for emission limitation</u>	<u>Y</u>	
BAAQMD Conditon #19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers, except for Condition 19466, Parts 6 and 9 which are to be superseded by BAAQMD Condition 20820, Part 72</u>		
Part 6	<u>S-5 FCCU and S-6 Coker annual grain loading source test (BAAQMD 6-1-310/SIP 6-310)The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-1-310]</u>	Y	
Part 9	<u>The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed 4.10P^{0.67} lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-1-311]S-5 FCCU, S-6 Coker, and S-8 Coke Storage annual PM mass emissions source test (BAAQMD 6-1-311/SIP 6-311)</u>	Y	
Part 15	<u>The Owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner Opacity monitoring requirements (1-520)</u>	Y	
<u>BAAQMD Condition 20820</u>			
<u>Part 21</u>	<u>Emission limitations triggered by (Project implementation);</u>	<u>Y</u>	
<u>Part 21.a.ii</u>	<u>Operation of third air blower, or oxygen injection to FCCU (S-5) or Coker</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Burner (S-6)</u>		
<u>Part 21.b</u>	<u>FCCU/CKR Scrubber and Main Stacks emission limitations (Main Stack 3-year baseline)</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 21.b.i</u>	<u>NOx – 77.9 ppm @ 3% O2, 365-day average, 779.9 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.ii</u>	<u>SO2 – 440 ppm @ 3% O2, 365-day average, 6,132 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.iii</u>	<u>PM10 – 40 lb/hr, 115.4 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.iv</u>	<u>NMOCPOC – 13.41+0.79 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.b.v</u>	<u>CO – 35.2 ppm @ 3% O2, 365-day average, 214.5 tons/calendar year</u>	<u>Y</u>	
<u>Part 21.c</u>	<u>PM10 and NMOCPOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)</u>	<u>Y</u>	
<u>Part 21.d</u>	<u>Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)</u>	<u>Y</u>	
<u>Part 22</u>	<u>SO2 emission reduction banking (Banking)</u>	<u>Y</u>	
<u>Part 61</u>	<u>Abatement requirements and vapor flow limit for S-5, S-6, S-1059, and S-1060 (Cumulative increase)</u>	<u>Y</u>	
<u>BAAQMD Condition 24198</u>	<u>Supersedes BAAQMD Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 15</u>	<u>Opacity monitoring requirements (1-520)]</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005) * To be deleted upon startup of S-1059/S-1060 CO Furnaces ** To be deleted upon expiration of NOx IERCs		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	*
2-9-302	Use of IERC's	N	**
2-9-303	Alternative Compliance Plan using IERC's	N	**
2-9-304	Restrictions on the Use of IERC's	N	**

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-305	Conversion of an ERC to an IERC	<u>N</u>	<u>*</u>
2-9-306	Environmental Benefit Surcharge	<u>N</u>	<u>*</u>
2-9-401	IERC Application	<u>N</u>	<u>*</u>
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	<u>N</u>	<u>*</u>
2-9-402	Complete IERC Banking Application	<u>N</u>	<u>**</u>
2-9-501	Monitoring and Record Keeping	<u>N</u>	<u>**</u>
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	<u>N</u>	<u>*</u>
2-9-601	Emission Reduction Calculations - General Requirements	<u>N</u>	<u>*</u>
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	<u>N</u>	<u>*</u>
2-9-603	Methodology for Calculating IERCs from a Stationary Source	<u>N</u>	<u>*</u>
2-9-604	Procedure to Convert an ERC to an IERC	<u>N</u>	<u>*</u>
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	<u>N</u>	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	<u>YN</u>	
6-1-310	Particulate Weight Limitation	<u>NY</u>	
6-1-310.3	Heat Transfer Operation	<u>NY</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>N</u>	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-310.3	Heat Transfer Operation	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	<u>Y</u>	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	NY	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/2001/04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
<u>60.105</u>	<u>Monitoring of emissions and operations</u>	<u>Y</u>	
<u>60.105(a)</u>	<u>Continuous Monitoring Systems Requirements</u>	<u>Y</u>	
<u>60.105(a)(4)</u>	<u>Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u>	<u>Y</u>	
<u>60.105(e)</u>	<u>Determine and report periods of excess emissions.</u>	<u>Y</u>	
<u>60.105(e)(3)(ii)</u>	<u>Excess SO2 emission definitions for 60.7(c)</u>	<u>Y</u>	
<u>60.106(a)</u>	<u>Test Methods and Procedures</u>	<u>Y</u>	
<u>60.106(e)(1)</u>	<u>Methods to determine compliance with the H2S standard in 60.104(a)(1).</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semi-annual compliance report</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of 60.107(f) report</u>	<u>Y</u>	
40 CFR Part 60 Appendix B			
<u>Performance Specification 7</u>	<u>H2S Continuous Emission Monitoring Systems (10/17/2000)</u>	<u>Y</u>	
40 CFR Part 60 Appendix F			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) (excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition #24245, Part 7)</u>	<u>Y</u>	
BAAQMD Condition #	<u>To be deleted upon expiration of NOx IERCs</u>		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
19329			
Part 1	<u>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase) Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)</u>	N	
Part 2	<u>Quarterly and annual reports (Regulation 2-9-303.3) Quarterly and annual reporting requirements (2-9-303.3)</u>	N	
Part 3	<u>Annual submittal of documents (Regulation 2-9-303.3) Annual District review of ACP (2-9-303.3)</u>	N	
Part 4	Recordkeeping <u>requirements</u> (Regulation 2-9-303.3)	N	
BAAQMD Condition #19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 10	<u>The Permit Holder shall conduct a District approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request.</u> <u>The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂.</u> <u>[Basis: Regulation 9-10-305] S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)</u>	Y	
BAAQMD Condition 20820	<u>For S-7 (F-103) Only</u>		
Part 21	Emission limitations triggered by (Project implementation):	<u>Y</u>	
Part 21.a.iii	Operation of new CO Furnaces, F-105 or F-106 (S-1059 or S-1060)	<u>Y</u>	
Part 21.b	FCCU/CKR Scrubber and Main Stacks emission limitations (Main Stack 3-year baseline)	<u>Y</u>	
Part 21.b.i	<u>NOx – 77.9 ppm @ 3% O₂, 365-day average, 779.9 tons/calendar year</u>	<u>Y</u>	
Part 21.b.ii	<u>SO₂ – 440 ppm @ 3% O₂, 365-day average, 6, 132 tons/calendar year</u>	<u>Y</u>	
Part 21.b.iii	<u>PM10 – 40 lb/hr, 115.4 tons/calendar year</u>	<u>Y</u>	
Part 21.b.iv	<u>NMOCPOC – 13.4140.79 tons/calendar year</u>	<u>Y</u>	
Part 21.b.v	<u>CO – 35.2 ppm @ 3% O₂, 365-day average, 214.5 tons/calendar year</u>	<u>Y</u>	
Part 21.c	PM10 and NMOCPOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 21.d	Annual emissions reporting on FCCU/CKR <u>Scrubber</u> and Main Stacks (Reporting requirements)	Y	
Part 34	Source testing for NOx, SO2, CO, <u>NMOCPOC</u> , and PM10 (Cumulative increase)	Y	After startup of <u>S-1059</u> and <u>S-1060 PS Furnaces</u>
BAAQMD Condition #2132221233			
Part 1	<u>Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)Regulation 9-10 Compliance (NOx-Box) Affected Sources and IERCs</u>	<u>NY</u>	
Part 2	<u>O2 monitor requirements (Regulation 9-10-502) O2 Monitoring Device Installation</u>	<u>NY</u>	
Part 3	<u>NOx Box OverviewOperation (9-10-502)</u>	<u>NY</u>	
Part 4	<u>NOx Box Establishment (9-10-502)</u>	<u>YN</u>	
Part 5	<u>NOx Box Limits (9-10-502)</u>	<u>YN</u>	
Part 6	<u>NOx Box Deviations (9-10-502)</u>	<u>YN</u>	
Part 7	<u>Source tests for NOx and CO at maximum NOx (9-10-502)Periodic Source Testing for Sources without a NOx CEM</u>	<u>YN</u>	
Part 9	<u>CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522) CO Exceedance and CEM Installation</u>	<u>YN</u>	
Part 10	<u>Records of source test data (9-10-504)Recordkeeping</u>	<u>YN</u>	
<u>BAAQMD Condition 24198</u>	<u>Supersedes BAAQMD Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 10</u>	<u>S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)</u>		
<u>BAAQMD Condition # 24245</u>			
<u>Part 4</u>	<u>NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>§§ 12, 115, 118, and 122)</u>		
<u>Part 5</u>	<u>Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)</u>	<u>Y</u>	
<u>Part 7</u>	<u>CEMS accuracy test requirements (Consent Decree § 121)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-522.1</u>	<u>Approval of Plans and Specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>Scheduling Requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM Performance Testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>Reporting of Inoperative CEMS</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM Calibration Requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM Accuracy Requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>Emission Limit Exceedance Reporting Requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>Monitoring Data Submittal Requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>Recordkeeping Requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2, Rule 9	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> * To be deleted upon startup of S-1059/S-1060 CO Furnaces ** To be deleted upon expiration of NOx IERCs		
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N	*
2-9-302	Use of IERC's	N	**
2-9-303	Alternative Compliance Plan using IERC's	N	**
2-9-304	Restrictions on the Use of IERC's	N	**
2-9-305	Conversion of an ERC to an IERC	N	*
2-9-306	Environmental Benefit Surcharge	N	**
2-9-401	IERC Application	N	*
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	*
2-9-402	Complete IERC Banking Application	N	*
2-9-501	Monitoring and Record Keeping	N	**
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	**
2-9-601	Emission Reduction Calculations - General Requirements	N	*
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	*
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	*
2-9-604	Procedure to Convert an ERC to an IERC	N	*
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	*
BAAQMD · Regulation 6 Rule 1	<u>Particulate Matter, General Requirements, and Visible Emissions</u> (12/19/199012/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	NY	
6-1-310	Particulate Weight Limitation	NY	
6-1-310.3	Heat Transfer Operation	NY	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP · Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Heat Transfer Operation</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD · Regulation 9 Rule 10·	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring <u>for sources subject to 9-10-301, 303, 304, and 305</u>	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records <u>for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303</u>	N	
<u>9-10-505</u>	<u>Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306</u>	<u>N</u>	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	<u>Y</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/200104/02/2008)		
9-10-502	Monitoring <u>for sources subject to 9-10-303</u>	Y	
9-10-502.2	Monitoring	Y	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-303</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of emissions and operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	<u>Y</u>	
60.107(f)	Semi-annual compliance report	<u>Y</u>	
60.107(g)	Certification of 60.107(f) report	<u>Y</u>	
40 CFR Part 60 Appendix B			
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	<u>Y</u>	
40 CFR Part 60 Appendix F			
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) (excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition #24245, Part 7)	<u>Y</u>	
BAAQMD Condition # 19329	To be deleted upon expiration of NOx IERCs		
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase) Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reporting requirements (2-9-303.3) Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual District review of ACP (2-9-303.3) Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 10	The Permit Holder shall conduct a District approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O2, operating day average, measured by a properly installed CEM for CO and O2. [Basis: Regulation 9-10-305] S-7, S-20, S-21, S-22, S-23, S-	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)		
BAAQMD Condition # 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305) Regulation 9-40 Compliance (NOx Box) Affected Sources and IERCs	Y N	
Part 2	O2 monitor requirements (Regulation 9-10-502) O2 Monitoring Device Installation (applies to S-24 and S-26 only)	Y N	
Part 3	NOx Box Operation (9-10-502) Overview	Y N	
Part 4	NOx Box Establishment (9-10-502)	Y N	
Part 5	NOx Box Limits (9-10-502)	Y N	
Part 6	NOx Box Deviations (9-10-502)	Y N	
Part 7	Periodic Source Testing for Sources without a NOx CEM Source tests for NOx and CO at maximum NOx (9-10-502)	Y N	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522) CO Exceedance and CEM Installation (applies to S-24 and S-26 only)	Y N	
Part 10	Recordkeeping Records of source test data (9-10-504)	Y N	
<u>BAAQMD Condition 24198</u>	<u>Supersedes BAAQMD Condition 19466</u>		
<u>Part 10</u>	S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)		
<u>BAAQMD Condition # 24245</u>			
<u>Part 4</u>	NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)	<u>Y</u>	
<u>Part 5</u>	Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)	<u>Y</u>	
<u>Part 6</u>	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)	<u>Y</u>	
<u>Part 7</u>	CEMS accuracy test requirements (Consent Decree § 121)	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/1998)12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 Rule 10-	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-112	Limited Exemption, Low Fuel Usage	N	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process heaters (03/29/2001)		
9-10-112	Limited Exemption, Low Fuel Usage	Y	

Table IV - A6.4
Source-Specific Applicable Requirements
Process Furnace
S-26 (F-801)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD · Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

Table IV - A6.4
Source-Specific Applicable Requirements
Process Furnace
S-26 (F-801)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>1-523.1</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.4</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (SIP Approved) (06/28/1999)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>**</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>*</u>
<u>2-9-501</u>	<u>Monitoring and Record Keeping</u>	<u>N</u>	<u>**</u>
<u>2-9-502</u>	<u>Alternative Compliance Plan Record Keeping and Reporting</u>	<u>N</u>	<u>**</u>
<u>2-9-601</u>	<u>Emission Reduction Calculations - General Requirements</u>	<u>N</u>	<u>*</u>
<u>2-9-602</u>	<u>Emission Reduction Calculations – Baseline Throughput and Emission Rate</u>	<u>N</u>	<u>*</u>
<u>2-9-603</u>	<u>Methodology for Calculating IERCs from a Stationary Source</u>	<u>N</u>	<u>*</u>
<u>2-9-604</u>	<u>Procedure to Convert an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-605</u>	<u>Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance</u>	<u>N</u>	<u>*</u>
<u>BAAQMD: Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements (12/5/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>NY</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>NY</u>	
<u>6-1-310.3</u>	<u>Heat Transfer Operation</u>	<u>NY</u>	

IV. Source Specific Applicable Requirements

Table IV - A6.4
Source-Specific Applicable Requirements
Process Furnace
S-26 (F-801)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<u>BAAQMD · Regulation 9 Rule 10·</u>	<u>NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)</u>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<u>SIP Regulation 9 Rule 10</u>	<u>NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (04/02/2008)</u>		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
<u>BAAQMD</u>	<u>To be deleted upon expiration of NOx IERCs</u>		

IV. Source Specific Applicable Requirements

Table IV - A6.4
Source-Specific Applicable Requirements
Process Furnace
S-26 (F-801)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Condition # 19329</u>			
<u>Part 1</u>	<u>Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)</u>	<u>N</u>	
<u>Part 2</u>	<u>Quarterly and annual reporting requirements (2-9-303.3)</u>	<u>N</u>	
<u>Part 3</u>	<u>Annual District review of ACP (2-9-303.3)</u>	<u>N</u>	
<u>Part 4</u>	<u>Recordkeeping requirements (Regulation 2-9-303.3)</u>	<u>N</u>	
<u>BAAQMD Condition # 19466</u>	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
<u>Part 10</u>	<u>S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)</u>	<u>Y</u>	
<u>BAAQMD Condition # 21233</u>			
<u>Part 1</u>	<u>Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)</u>	<u>Y</u>	
<u>Part 2</u>	<u>O2 monitor requirements (Regulation 9-10-502)</u>	<u>Y</u>	
<u>Part 3</u>	<u>NOx Box Operation (9-10-502)</u>	<u>Y</u>	
<u>Part 4</u>	<u>NOx Box Establishment (9-10-502)</u>	<u>Y</u>	
<u>Part 5</u>	<u>NOx Box Limits (9-10-502)</u>	<u>Y</u>	
<u>Part 6</u>	<u>NOx Box Deviations (9-10-502)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Source tests for NOx and CO at maximum NOx (9-10-502)</u>	<u>Y</u>	
<u>Part 9</u>	<u>CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)</u>	<u>Y</u>	
<u>Part 10</u>	<u>Records of source test data (9-10-504)</u>	<u>Y</u>	
<u>BAAQMD Condition 24198</u>	<u>Supersedes BAAQMD Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 10</u>	<u>S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)</u>		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/02/2004/07/19/2006)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (10/07/1998/06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (12/19/1998/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 12-11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-11-502.1	Vent Gas Composition Monitoring	N	
12-11-502.2	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
BAAQMD Regulation 12-12	Flares at Petroleum Refineries (4/5/2006)		
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-407	Annual Reports	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/200606/24/2008)		
60.100(b)	Subpart J not applicable: Constructed Flare constructed/reconstructed/ modified before after 6/11/1973 and on or before 6/24/2008	Y	
BAAQMD Condition #20806	Permit Conditions for S-16, S-18, and S-19		
Part 3	For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously	Y	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>403)</u>		
Part 6	The Owner/Operator shall keep records of all flaring events, as defined in Part 3. The Owner/Operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (Basis: Regulation 2-6-501; 2-6-409.2) <u>Flaring event recordkeeping requirements (2-6-501; 2-6-409.2)</u>	<u>Y</u>	

Table IV - A8.2
Source-Specific Applicable Requirements
South Flare
S-18 (ST-2101)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD - Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.4</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>SIP: Regulation 1</u>	<u>General Provisions and Definitions (SIP Approved) (06/28/1999)</u>		
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>BAAQMD - Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements (12/5/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>NY</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>NY</u>	

IV. Source Specific Applicable Requirements

Table IV - A8.2
Source-Specific Applicable Requirements
South Flare
S-18 (ST-2101)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>NY</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>NY</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
<u>BAAQMD Regulation 12-11</u>	<u>Flare Monitoring at Petroleum Refineries (06/04/03)</u>		
<u>12-11-401</u>	<u>Flare Data Reporting Requirements</u>	<u>N</u>	
<u>12-11-402</u>	<u>Flow Verification Report</u>	<u>N</u>	
<u>12-11-501</u>	<u>Vent Gas Flow Monitoring</u>	<u>N</u>	
<u>12-11-502</u>	<u>Vent Gas Composition Monitoring</u>	<u>N</u>	
<u>12-11-502.1</u>	<u>Vent Gas Composition Monitoring</u>	<u>N</u>	
<u>12-11-502.2</u>	<u>Vent Gas Composition Monitoring</u>	<u>N</u>	
<u>12-11-502.3</u>	<u>Vent Gas Composition Monitoring</u>	<u>N</u>	
<u>12-11-503</u>	<u>Pilot Monitoring</u>	<u>N</u>	
<u>12-11-504</u>	<u>Pilot and Purge Gas Monitoring</u>	<u>N</u>	
<u>12-11-505</u>	<u>Recordkeeping Requirements</u>	<u>N</u>	
<u>12-11-506</u>	<u>General Monitoring Requirements</u>	<u>N</u>	
<u>12-11-506.1</u>	<u>Periods of Inoperation of Vent Gas Monitoring</u>	<u>N</u>	
<u>12-11-507</u>	<u>Video Monitoring</u>	<u>N</u>	
<u>12-11-601</u>	<u>Testing, Sampling, and Analytical Methods</u>	<u>N</u>	
<u>12-11-602</u>	<u>Flow Verification Test Methods</u>	<u>N</u>	
<u>BAAQMD Regulation 12-12</u>	<u>Flares at Petroleum Refineries (4/5/2006)</u>		
<u>12-12-301</u>	<u>Flare Minimization</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

Table IV - A8.2
Source-Specific Applicable Requirements
South Flare
S-18 (ST-2101)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>12-12-401</u>	<u>Flare Minimization Plan Requirements</u>	<u>N</u>	
<u>12-12-402</u>	<u>Submission of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-403</u>	<u>Review and Approval of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-404</u>	<u>Update of Flare Minimization Plans</u>	<u>N</u>	
<u>12-12-405</u>	<u>Notification of Flaring</u>	<u>N</u>	
<u>12-12-406</u>	<u>Determination and Reporting of Cause</u>	<u>N</u>	
<u>12-12-407</u>	<u>Annual Reports</u>	<u>N</u>	
<u>12-12-408</u>	<u>Designation of Confidential Information</u>	<u>N</u>	
<u>12-12-501</u>	<u>Water Seal Integrity Monitoring</u>	<u>N</u>	
<u>40 CFR Part 60</u>			
<u>Subpart J</u>	<u>NSPS Subpart J for Petroleum Refineries (06/24/2008)</u>		
<u>60.101(e)</u>	<u>Definition for process upset gas</u>	<u>Y</u>	
<u>60.104</u>	<u>Standards for Sulfur Oxides</u>	<u>Y</u>	
<u>60.104(a)(1)</u>	<u>Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions.</u>	<u>Y</u>	
<u>60.105</u>	<u>Monitoring of emissions and operations</u>	<u>Y</u>	
<u>60.105(a)(4)(iv)</u>	<u>Fuel gas streams exempt under 60.104(a)(1) are not required to comply with the monitoring requirements of 60.104(a)(3) or (a)(4)</u>	<u>Y</u>	
<u>BAAQMD Condition #20806</u>	<u>Permit Conditions for S-16, S-18, and S-19</u>		
<u>Part 3</u>	<u>Flaring event definition and inspection requirements (2-6-409.2)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Flaring event visible inspection procedures (BAAQMD 6-1-301/SIP 6-301, 2-1-403)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Flaring event visual inspection requirements (2-6-403)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Flaring event recordkeeping requirements (2-6-501; 2-6-409.2)</u>	<u>Y</u>	
<u>BAAQMD Condition #24245</u>			
<u>Part 1</u>	<u>NSPS J applicability. (Basis: Consent Decree §§ 231, 232, 238(a)(i))</u>	<u>Y</u>	
<u>Part 2</u>	<u>Operate and maintain a flare gas recovery system to control continuous or routine combustion in the flaring devices. (Basis: Consent Decree §§ 235(a))</u>	<u>Y</u>	
<u>Part 3</u>	<u>Exemption from 40 CFR Part 60.104(a)(1). (Basis: Consent Decree §§ 241)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - A8.23
Source-Specific Applicable Requirements
Butane Flare
S-17 (ST-1701)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-305	Visible Particles	N Y	
6-1-310	Particulate Weight Limitation	N Y	
6-1-401	Appearance of Emissions	N Y	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
SIP · Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	Y	
<u>6-305</u>	<u>Visible Particles</u>	Y	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	Y	
<u>6-401</u>	<u>Appearance of Emissions</u>	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
BAAQMD Regulation 12-11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-110	Exemption, Organic Liquid Storage and Distribution	N	
BAAQMD Regulation 12-12	Flares at Petroleum Refineries (4/5/2006)		
12-12-110	Exemption, Organic Liquid Storage and Distribution	N	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		
60.100(b)	Subpart J not Applicable: Flare c Constructed/ reconstructed /modified before after 6/11/1973 and on or before 6/24/2008	Y	

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

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements, and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
6-305	<u>Visible Particles</u>	<u>Y</u>	
6-310	<u>Particulate Weight Limitation</u>	<u>Y</u>	
6-401	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
<u>BAAQMD Regulation 10BAAQMD- Regulation 10 Subpart J</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)NSPS Incorporation by Reference, Petroleum Refineries_ (02/16/2000)</u>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
BAAQMD Regulation 12-11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.1	Vent Gas Composition Monitoring	N	
12-11-502.2	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
BAAQMD	Flares at Petroleum Refineries (4/5/2006)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 12-12			
12-12-301	Flare Minimization	N	
12-12-401	Flare Minimization Plan Requirements	N	
12-12-402	Submission of Flare Minimization Plans	N	
12-12-403	Review and Approval of Flare Minimization Plans	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-407	Annual Reports	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)-Fuel Gas Combustion Devices of Refineries.	Y	
60.100(b)	Applicability: Flare c Constructed/reconstructed/modified after 6/11/1973 and on or before 6/24/2008	Y	
60.101(e)	Definition for process upset gas	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions.	Y	
60.105	Monitoring of emissions and operations	Y	
60.105(a)(4)(iv)	Fuel gas streams exempt under 60.104(a)(1) are not required to comply with the monitoring requirements of 60.104(a)(3) or (a)(4)	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
NSPS Title 40	NSPS 40 Part 60 Appendix B (09/21/2006)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 60 Appendix B			
Performance Specification 7	H2S Continuous Emission Monitoring Systems (09/21/2006)	Y	
NSPS Title 40 Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (01/12/2004)	Y	
BAAQMD Condition #20806	Permit Conditions for S-16, S-18, and S-19		
Part 3	Flaring event definition and inspection requirements (2-6-409.2)For the event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the Owner/Operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (Basis: Regulation 2-6-409.2)	Y	
Part 4	Flaring event visible inspection procedures (6-1-301, 2-1-403)The Owner/Operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event: a. If the Owner/Operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection. b. If the Owner/Operator cannot determine that there are no visible emissions using video monitoring, the Owner/Operator shall conduct a visual inspection outdoors using either: i. EPA Reference Method 9; or ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes. c. If a visible emission is observed, the Owner/Operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter. d. The Owner/Operator shall repeat the inspection procedure for the	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	duration of the flaring event, or until a violation is documented in accordance with Part 5. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (Basis: Regulation 6-1-301, 2-1-403)		
Part 5	Flaring event visual inspection requirements (2-6-403)The Owner/Operator shall comply with one of the following requirements if visual inspection is used: a. If EPA Method 9 is used, the Owner/Operator shall comply with Regulation 6-301 when operating the flare. b. If the procedure of 4.b.ii is used, the Owner/Operator shall not operate a flare that has visible emissions for three consecutive minutes. (Basis: Regulation 2-6-403)	Y	
Part 6	Flaring event recordkeeping requirements (2-6-501; 2-6-409.2)The Owner/Operator shall keep records of all flaring events, as defined in Part 3. The Owner/Operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-301 occurred (using EPA Method 9). (Basis: Regulation 2-6-501; 2-6-409.2)	Y	
<u>BAAQMD Condition # 24245</u>			
<u>Part 1</u>	<u>NSPS J applicability. (Basis: Consent Decree §§ 231, 232, 238(a)(i))</u>	<u>Y</u>	
<u>Part 2</u>	<u>Operate and maintain a flare gas recovery system to control continuous or routine combustion in the flaring devices. (Basis: Consent Decree §§ 235(a))</u>	<u>Y</u>	
<u>Part 3</u>	<u>Exemption from 40 CFR Part 60.104(a)(1). (Basis: Consent Decree §§ 241)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	Restrictions on the Use of IERC's	<u>N</u>	<u>**</u>
2-9-305	Conversion of an ERC to an IERC	<u>N</u>	<u>*</u>
2-9-306	Environmental Benefit Surcharge	<u>N</u>	<u>*</u>
2-9-401	IERC Application	<u>N</u>	<u>*</u>
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	<u>N</u>	<u>*</u>
2-9-402	Complete IERC Banking Application	<u>N</u>	<u>*</u>
2-9-501	Monitoring and Record Keeping	<u>N</u>	<u>**</u>
2-9-601	Emission Reduction Calculations - General Requirements	<u>N</u>	<u>**</u>
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	<u>N</u>	<u>*</u>
2-9-603	Methodology for Calculating IERCs from a Stationary Source	<u>N</u>	<u>*</u>
2-9-604	Procedure to Convert an ERC to an IERC	<u>N</u>	<u>*</u>
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	<u>N</u>	<u>*</u>
BAAQMD · Regulation 6 Rule 1	Particulate Matter-, General Requirements and Visible Emissions (12/19/199012/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	<u>Y</u>	
6-1-310	Particulate Weight Limitation	<u>Y</u>	
6-1-310.3	Heat Transfer Operation	<u>Y</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	<u>N</u>	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-310.3	Heat Transfer Operation	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	<u>Y</u>	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	NY	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/2001/04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 10BAAQMD-Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) NSPS Incorporation by Reference, Petroleum Refineries, (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title	NSPS Subpart J for Petroleum Refineries (06/24/300809/21/2006)		

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart J			
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries, and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD) and Fuel Gas Combustion Devices of Refineries	Y	
60.100(b)	Applicability: Constructed/ reconstructed modified after 6/11/1973 <u>and before May 14, 2007</u>	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B- (09/21/2006)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems <u>(10/17/2000)</u>	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F- (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems <u>(06/13/2007)</u>	Y	
<u>BAAQMD Regulation 2, Rule</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u>		

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9			
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition #19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase) Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3) Quarterly and annual reporting requirements (2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3) Annual District review of ACP (2-9-303.3)	N	
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition #10574	<u>Superseded by Condition 24197 Upon Startup of S-1061 and S-1062</u>		
Part 13	<u>Daily average and 3-hr fuel gas H2S limit The refinery fuel gas combusted</u>	Y	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	in any CFP equipment shall not exceed any of the following: (a) 100 ppmv H₂S, averaged over a 24 hour calendar day and (b) the H₂S concentration limitation specified in NSPS 40 CFR 60 Subpart J. [Basis: Cumulative Increase, BACT, NSPS]		
Part 14	Refinery fuel gas TRS content limit (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT)The refinery fuel gas combusted in any CFP equipment shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y	
Part 15	Refinery fuel gas H₂S and TRS CEM installation requirements (Monitoring and Records)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	
Part 16	Refinery fuel gas H₂S and TRS CEM recordkeeping and quarterly reporting (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT)The Permit Holder shall calculate and record the 24-hour average H₂S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, Permit Holder shall report for S-220, S-21 and S-22: (a) the daily fuel consumption, (b) daily averaged H₂S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H₂S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y	
Part 17	Natural gas, LPG/pentane, and refinery fuel gas firing restrictions and H₂S concentration limit (BACT, Cumulative Increase)All new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H₂S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]	Y	
Part 18	NO_x, CO, SO₂, PM₁₀ and POC mass emission limits (SO₂ Contemporaneous offset credits for SO₂ and PM₁₀ in Application #18888)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	Y	

IV. Source Specific Applicable Requirements

Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<p>Increase, New Source Review trigger, Offsets, SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888.</p> <p style="text-align: center;"><u>Pollutant</u> <u>Ton/year</u></p> <p>NOx 17.11 (S-220 only)</p> <p>CO 134.904</p> <p>SO2 59.358</p> <p>PM10 26.981</p> <p>POC 15.514</p> <p>(Note: Deleted. [Basis: There is no NOx increase in emissions from the S-21 and S-22 Hydrogen Heaters.]</p>		
Part 19	<p>Fuel flow monitoring requirement Equip the three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Regulation 9-10-502.2]</p>	Y	
Part 20	<p>Annual NOx, CO, POC, SO2, and PM10 mass emissions calculation method (BACT, Cumulative Increase) The Permit Holder shall calculate and totalize NOx, CO, POC, SO2 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be:</p> <p style="text-align: center;"><u>Pollutant</u> <u>Daily Emission Limit</u></p> <p>CO: 0.0200 lb/MMBtu</p> <p>POC: 0.0023 lb/MMBtu</p> <p>SO2: 0.0069 lb/MMBtu</p> <p>PM10: 0.0040 lb/MMBtu</p> <p>NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance</p> <p>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]</p>	Y	
Part 21	<p>Ringelmann 1 visible emissions limitation Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S-21, S-22 and S-220) or the three abatement devices (A-43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1 or 20% opacity. [Basis: BAAQMD 6-1-301/SIP 6-301]</p>	Y	
Part 22	<p>Definition of startup and shutdown periods (Cumulative Increase) For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and</p>	Y	

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Table IV - A10
Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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]		
Part 31	NOx concentration emission limit (Cumulative Increase, Offsets)For the S-21 and S-22 furnaces, the emissions of nitrogen oxides based on CEM data shall not exceed 60 ppmv, dry, corrected to 3% oxygen, (0.0708 lb/MMBtu) averaged over any consecutive 24 hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the emissions of nitrogen oxides shall not exceed 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]	Y	
Part 32	CO concentration emission limits (Cumulative Increase)For the S-21 and S-22 furnaces, the emissions of CO shall not exceed 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]	Y	
Part 33	NOx abatement requirements (BAAQMD 9-10)Sources S-21 and S-22 shall be equipped with low-NOx burners. The low-NOx burners systems shall be operated in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]	Y	
Part 37	Combined annual firing rate limit for S-21 and S-22 (Cumulative Increase, Offsets)The total combined heat input for S-21 and S-22 shall not exceed 106 million therms (10.6 trillion Btus) any 365 consecutive day period. [Basis: Cumulative Increase, Offsets]	Y	
Part 38	Hourly firing rate limit (Cumulative Increase, Toxics)The maximum firing rate of the S-21 Hydrogen Reforming Furnace shall not exceed 614 million Btu per hour for all fuels combusted at the source. [Basis: Cumulative Increase, Toxics]	Y	
Part 39	Hourly firing rate limit (Cumulative Increase, Toxics)The maximum firing rate of the S-22 Hydrogen Reforming Furnace shall not exceed 614 million Btu per hour for all fuels combusted at the source. [Basis: Cumulative Increase, Toxics]	Y	
Part F	CEM requirements for CFP (BACT)Each CEM shall be installed, maintained	Y	
Part G	Recordkeeping for sources installed by CFP (BACT)The Permit Holder shall 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)	Y	

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Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Fuel gas usage rates (cubic feet/day) Fuel heat content, HHV [24 hour average] Actual Firing Rate (Btu/month) Miscellaneous [Basis BACT]		
Part H	Process vessel depressurization requirement (Cumulative Increase)Any process vessel depressurization gas shall be vented to a control device with overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
<u>BAAQMD Condition 19329</u>	<u>To be deleted upon expiration of NOx IERCs</u>		
<u>Part 1</u>	<u>Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)</u>	<u>N</u>	
<u>Part 2</u>	<u>Quarterly and annual reporting requirements (2-9-303.3)</u>	<u>N</u>	
<u>Part 3</u>	<u>Annual District review of ACP (2-9-303.3)</u>	<u>N</u>	
<u>Part 4</u>	<u>Recordkeeping requirements (Regulation 2-9-303.3)</u>	<u>N</u>	
<u>BAAQMD Condition #19466</u>	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 10	The Permit Holder shall conduct a District approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂. [Basis: Regulation 9-10-305] S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
Part 14	S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1) The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220	Y	

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Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Steam Generators: S-40, S-41</u>		
<u>BAAQMD Condition 20820</u>			<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 76</u>	<u>Shutdown S-21, S-22 (Offsets)</u>	<u>Y</u>	
<u>BAAQMD Condition #21233</u>			
<u>Part 1</u>	<u>Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)</u>	<u>YN</u>	
<u>Part 2</u>	<u>O2 Monitoring Device Installation O2 monitor requirements (Regulation 9-10-502)</u>	<u>YN</u>	
<u>Part 8</u>	<u>CO source test requirements (9-10-502) Periodic Source Testing for Sources with a NOx CEM</u>	<u>YN</u>	
<u>Part 9</u>	<u>CO Exceedance and CEM Installation CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)</u>	<u>YN</u>	
<u>Part 10</u>	<u>Recordkeeping Records of source test data (9-10-504)</u>	<u>YN</u>	
<u>BAAQMD Condition 24197</u>	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 14</u>	<u>Refinery fuel gas TRS content limit (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT)</u>	<u>Y</u>	
<u>Part 15</u>	<u>Refinery fuel gas H2S and TRS CEM installation requirements (Monitoring and Records)</u>	<u>Y</u>	
<u>Part 16</u>	<u>Refinery fuel gas H2S and TRS CEM recordkeeping and quarterly reporting (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT)</u>	<u>Y</u>	
<u>Part 17</u>	<u>Natural gas, LPG/pentane, and refinery fuel gas firing restrictions and H2S concentration limit (BACT, Cumulative Increase)</u>	<u>Y</u>	
<u>Part 18</u>	<u>NOx, CO, SO2, PM10 and POC mass emission limits (SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888)</u>	<u>Y</u>	
<u>Part 20</u>	<u>Annual NOx, CO, POC, SO2, and PM10 mass emissions calculation method (BACT, Cumulative Increase)</u>	<u>Y</u>	
<u>Part 22</u>	<u>Definition of startup and shutdown periods (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 31</u>	<u>NOx concentration emission limit (Cumulative Increase, Offsets)</u>	<u>Y</u>	

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Source-Specific Applicable Requirements
Process Furnaces
S-21, S-22 (F-301, F-351)
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 32	CO concentration emission limits (Cumulative Increase)	Y	
Part 33	NOx abatement requirements (BAAQMD 9-10)	Y	
Part 37	Annual firing rate limit for S-21 or S-22 (Cumulative Increase, Offsets)	Y	
Part 38	Hourly firing rate limit for S-21 or S-22 (Cumulative Increase, Toxics)	Y	
Part 39	Hourly firing rate limit for S-22 (Cumulative Increase, Toxics)	Y	
Part F	CEM requirements for CFP (BACT)	Y	
Part G	Recordkeeping for sources installed by CFP (BACT)	Y	
Part H	Process vessel depressurization requirement (Cumulative Increase)	Y	
BAAQMD Condition # 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 10	S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
Part 14	S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP- Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 2, Rule 9	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>*</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>**</u>

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-501	Monitoring and Record Keeping	N	**
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	*
2-9-601	Emission Reduction Calculations - General Requirements	N	*
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N	*
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	*
2-9-604	Procedure to Convert an ERC to an IERC	N	*
2-9-605	Calculation Procedure to Determine the Required Amount of IERC’s for BARCT Compliance	N	*
BAAQMD Regulation 6 Rule 1	Particulate Matter, General Requirements, and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
6-1-310.3	Heat Transfer Operation	N Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	

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Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/200404/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 10BAAQMD-Regulation 10 Subpart J-	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)NSPS Incorporation by Reference, Petroleum Refineries, (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/200606/24/2008)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)Fuel Gas Combustion Devices of Refineries.	Y	
60.100(b)	Applicability: Constructed/ reconstructed /modified after 6/11/1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(fg)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/21/2006)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems <u>(10/17/2000)</u>	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems <u>(06/13/2007)</u>	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3) Quarterly and annual reporting requirements (2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3) Annual District review of ACP (2-9-303.3)	N	
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 14318			
Part 1	NMHC mass emission limit (BACT)Emissions of NMHC from S-23 (furnace F-401) shall not exceed 10 lb/day. [Basis: BACT]	Y	
Part 2	NOx concentration emission limit (Cumulative Increase)Emission of NOx shall not exceed 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]	Y	
Part 3	NOx/O2 CEM requirements for S-23 (Cumulative Increase)NOx and oxygen shall be continuously monitored (per Manual of Procedures). [Basis: Cumulative Increase]	Y	
Part 4	Maximum firing of furnace shall not exceed 200 MMBtu/hr heat input for any one hour period and 185 MMBtu/hr average for a 24 hour period based on the gross heating value of the fuel gas. This 24 hour period shall be midnight to midnight. [Basis: Cumulative Increase]Hourly and daily firing rate limits (Cumulative Increase)	Y	
Part 5	As per Regulation 10-14, hydrogen sulfide shall be continuously monitored and shall limit the hydrogen sulfide to no more than theFuel gas H2S concentration limitation, specified in NSPS 40 CFR Part 60, Subpart J. [Basis: Cumulative Increase, BAAQMD 10-14]	Y	
Part 6	All data pertaining to (1), (2), (3), (4), above shall be readily accessible to BAAQMD field personnel upon request. [Basis: Compliance]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Verification through Records</u>		
<u>BAAQMD Condition # 19329</u>	<u>To be deleted upon expiration of NOx IERCs</u>		
<u>Part 1</u>	<u>Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)</u>	<u>N</u>	
<u>Part 2</u>	<u>Quarterly and annual reporting requirements (2-9-303.3)</u>	<u>N</u>	
<u>Part 3</u>	<u>Annual District review of ACP (2-9-303.3)</u>	<u>N</u>	
<u>Part 4</u>	<u>Recordkeeping requirements (Regulation 2-9-303.3)</u>	<u>N</u>	
<u>BAAQMD Condition # 19466</u>	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 10	<u>S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305) The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂. [Basis: Regulation 9-10-305]</u>	Y	
Part 14	<u>S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1) The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41</u>	Y	
<u>BAAQMD Condition # 21233</u>			
Part 1	<u>Affected sources, firing rates, use of ACP (9-10-301, 9-10-305) Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs</u>	<u>YN</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	O₂ monitor requirements (Regulation 9-10-502) O₂ Monitoring Device Installation	Y N	
Part 8	CO source test requirements (9-10-502) Periodic Source Testing for Sources with a NO_x CEM	Y N	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522) CO Exceedance and CEM Installation	Y N	
Part 10	Records of source test data (9-10-504) Recordkeeping	Y N	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 10</u>	<u>S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)</u>	<u>Y</u>	
<u>Part 14</u>	<u>S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NO_x CEM requirements (9-10-502.1)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP- Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>*</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>**</u>
<u>2-9-501</u>	<u>Monitoring and Record Keeping</u>	<u>N</u>	<u>**</u>
<u>2-9-502</u>	<u>Alternative Compliance Plan Record Keeping and Reporting</u>	<u>N</u>	<u>*</u>
<u>2-9-601</u>	<u>Emission Reduction Calculations - General Requirements</u>	<u>N</u>	<u>*</u>
<u>2-9-602</u>	<u>Emission Reduction Calculations – Baseline Throughput and Emission Rate</u>	<u>N</u>	<u>*</u>
<u>2-9-603</u>	<u>Methodology for Calculating IERCs from a Stationary Source</u>	<u>N</u>	<u>*</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-604	Procedure to Convert an ERC to an IERC	N	*
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	*
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process heaters (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/2001-04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>40 CFR Part 60 Subpart J</u>	<u>NSPS Subpart J for Petroleum Refineries (06/24/3008)</u>		
<u>60.104</u>	<u>Standards for Sulfur Oxides</u>	<u>Y</u>	
<u>60.104(a)(1)</u>	<u>Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions</u>	<u>Y</u>	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
<u>60.105(a)</u>	<u>Continuous Monitoring Systems Requirements</u>	<u>Y</u>	
<u>60.105(a)(4)</u>	<u>Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u>	<u>Y</u>	
<u>60.105(e)</u>	<u>Determine and report periods of excess emissions.</u>	<u>Y</u>	
<u>60.105(e)(3)(ii)</u>	<u>Excess SO2 emission definitions for 60.7(c)</u>	<u>Y</u>	
<u>60.106(a)</u>	<u>Test Methods and Procedures</u>	<u>Y</u>	
<u>60.106(e)(1)</u>	<u>Methods to determine compliance with the H2S standard in 60.104(a)(1).</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semi-annual compliance report</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of 60.107(f) report</u>	<u>Y</u>	
<u>40 CFR Part 60 Appendix B</u>			
<u>Performance Specification 7</u>	<u>H2S Continuous Emission Monitoring Systems (10/17/2000)</u>	<u>Y</u>	
<u>40 CFR Part 60 Appendix F</u>			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) (excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition #-24245, Part 7)</u>	<u>Y</u>	
BAAQMD Condition # 19329	<u>To be deleted upon expiration of NOx IERCs</u>		
Part 1	<u>Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase), Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</u>	N	
Part 2	<u>Quarterly and annual reporting requirements (2-9-303.3) Quarterly and annual reports (Regulation 2-9-303.3)</u>	N	
Part 3	<u>Annual submittal of documents (Regulation 2-9-303.3) Annual District</u>	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	review of ACP (2-9-303.3)		
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 10	S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305) The Permit Holder shall conduct a District-approved source test on a semi-annual basis on sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O ₂ , operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O ₂ , operating day average, measured by a properly installed CEM for CO and O ₂ . [Basis: Regulation 9-10-305]	Y	
Part 14	S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1) The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 10	S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>CEM requirements (9-10-305)</u>		
<u>Part 14</u>	<u>S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1)</u>	<u>Y</u>	
BAAQMD Condition # 21233			
Part 1	<u>Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)Regulation 9-10-305 Compliance (NOx Box) Affected Sources and IERCs</u>	<u>YN</u>	
Part 2	<u>O2 monitor requirements (Regulation 9-10-502)O2 Monitoring Device Installation</u>	<u>YN</u>	
Part 8	<u>CO source test requirements (9-10-502)Periodic Source Testing for Sources with a NOx CEM</u>	<u>YN</u>	
Part 9	<u>CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)CO Exceedance and CEM Installation</u>	<u>YN</u>	
Part 10	<u>Records of source test data (9-10-504)Recordkeeping</u>	<u>YN</u>	
<u>BAAQMD Condition # 24245</u>			
<u>Part 4</u>	<u>NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)</u>	<u>Y</u>	
<u>Part 7</u>	<u>CEMS accuracy test requirements (Consent Decree § 121)</u>	<u>Y</u>	

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-107	Combination of Emissions	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/199012/5/2007)		
6- 1 -301	Ringelmann No. 1 Limitation	N Y	
6- 1 -310	Particulate Weight Limitation	N Y	
6- 1 -310.3	Heat Transfer Operation	N Y	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	Y	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	Y	
<u>6-310.3</u>	<u>Heat Transfer Operation</u>	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD Condition # 19466 (S-36 only)	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 12	The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase] S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	
<u>BAAQMD Condition 24198</u> (S-36 only)	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 12	S-1597 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD · Regulation 9 Rule 9	Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/06/2006)		
9-9-113	Exemption, Inspection and Maintenance Periods	N	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	N	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	N	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-9-114	Exemption, Start-up and Shutdown Periods	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-301.1.1	NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW	N	
9-9-301.2	Alternative NOx Emission Limits for Gas Turbines >50 – 150 MMBtu/hr	N	1/1/2010
9-9-301.4	Rebuttal Option for Alternative NOx Emission Limits	N	1/1/2010
9-9-504	Annual Demonstration of Compliance for Turbines Without NOx CEMS	N	
9-9-601	Determination of Emissions	N	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-603	Continuous Emission Monitoring (establishes three-hour averaging period)	N	
9-9-604	Determination of Stack Gas Oxygen	N	
SIP · Regulation 9 Rule 9	Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/15/1997)		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.1	NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW	Y	
9-9-601	Determination of Emissions	Y	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 11	The Permit Holder shall conduct a semi-annual District approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NOx not to exceed 55 ppmv, dry, at 15% O2, fired on refinery fuel gas. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-9-301.1] 90 Annual NOx source test (Regulation 9-9-301.1)	Y	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
			Condition 20820, Part 21.a triggers
Part 11	Annual NOx source test (Regulation 9-9-301.1)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 2 Rule 4	Permits, Emissions Banking (12/21/2004)		
2-4-301	Bankable Reductions	Y	
2-4-301.1	Bankable Reductions	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and Visible Emissions (12/19/1990) 12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	Y	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	Y	
<u>6-310.3</u>	<u>Heat Transfer Operation</u>	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD Condition # 16386	Permit to Operate S-37 (SG-702) Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine		
Part 1	<u>NOx concentration emission limit (Permanency of Contemporaneous Banking Credit, Offsets)</u> Except during startup and shutdown, the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 4	<u>NOx abatement requirement (Permanency of Contemporaneous Banking Credit, Offsets)</u> The emissions from the S-37 Steam Generator Gas Turbine shall be abated by the A-51 Selective Catalyst Reduction System at all	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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.		
Part 5	Definition of startup and shutdown periods (Permanency of Contemporaneous Banking Credit, Offsets) Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24 hour period does not apply during the initial startup of the units. <Permanency of Contemporaneous Banking Credit, offsets>	Y	
Part 6	NOx CEM requirements for S-37 and S-45 (enforceability of contemporaneous banking credit, offsets) 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 eontemporaneous banking credit, Offsets>	Y	
Part 7	NOx mass emission limit (Permanency of Actual Emissions Reduction for S-237) The total emissions of nitrogen oxides (NOx) emissions for S-37 Steam Generator shall not exceed 23.851 tons per calendar year. <Permanency of Actual Emissions Reduction for S-237>	Y	
Part 8	Recordkeeping requirements (Banked POC credits requirements) To demon 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 Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (SIP Approved) (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 (12/21/2004)		
2-4-301	Bankable Reductions	Y	
2-4-301.1	Bankable Reductions	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/199012/5/2007)		
6- 1 -301	Ringelmann No. 1 Limitation	Y N	
6- 1 -310	Particulate Weight Limitation	Y N	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD · Regulation 9 Rule 9	Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/06/2006)		
9-9-113	Exemption, Inspection and Maintenance Periods	N	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	N	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	N	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	N	
9-9-114	Exemption, Start-up and Shutdown Periods	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-301.1.3	NOx Emission Limit for Gas Turbines > 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	N	
9-9-301.2	Alternative NOx Emission Limits for Gas Turbines >150 – 250 MMBtu/hr or >250 – 500 MM Btu/hr	N	1/1/2010
9-9-301.4	Rebuttal Option for Alternative NOx Emission Limits	N	1/1/2010
9-9-401	Certification, Efficiency	N	
9-9-501	Monitoring and Recordkeeping Requirements	N	
9-9-603	Continuous Emission Monitoring (establishes three-hour averaging period)	N	
9-9-604	Determination of Stack Gas Oxygen	N	
SIP · Regulation 9 Rule 9·	Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/15/1997)		
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	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	ppmv (dry, 15% O2)		
9-9-401	Certification, Efficiency	Y	
9-9-501	Monitoring and Recordkeeping Requirements	Y	
9-9-601	Determination of Emissions	Y	
9-9-603	Continuous Emission Monitoring	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD Condition # 16386	Permit to Operate S-37 (SG-702) Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine		
Part 1	NOx concentration emission limit (Permanency of Contemporaneous Banking Credit, Offsets) Except during startup and shutdown, the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 3	NOx abatement requirement (Permanency of Contemporaneous Banking Credit, Offsets) Except during startup and shutdown, the emissions from the S-45 Gas Turbine shall be abated by the A-51 Selective Catalyst Reduction System at all times in which it is in operation. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 5	Definition of startup and shutdown periods (Permanency of Contemporaneous Banking Credit, Offsets) Startups and shutdowns shall not exceed 24 consecutive hours. The 24 consecutive hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24 hour period does not apply during the initial startup of the units. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
Part 6	NOX CEM requirements for S-37 and S-45 (enforceability of contemporaneous banking credit, offsets) Valero Refining Company shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx) emissions from this combined system consisting of S-45 and S-37. <Regulation 9, Rule 9 enforceability of contemporaneous banking credit, Offsets>	Y	
Part 8	Recordkeeping requirements (Banked POC credits requirements) To demon 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	Y	

IV. Source Specific Applicable Requirements

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP-Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>*</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>**</u>
<u>2-9-501</u>	<u>Monitoring and Record Keeping</u>	<u>N</u>	<u>**</u>
<u>2-9-502</u>	<u>Alternative Compliance Plan Record Keeping and Reporting</u>	<u>N</u>	<u>*</u>
<u>2-9-601</u>	<u>Emission Reduction Calculations - General Requirements</u>	<u>N</u>	<u>*</u>
<u>2-9-602</u>	<u>Emission Reduction Calculations – Baseline Throughput and Emission Rate</u>	<u>N</u>	<u>*</u>
<u>2-9-603</u>	<u>Methodology for Calculating IERCs from a Stationary Source</u>	<u>N</u>	<u>*</u>
<u>2-9-604</u>	<u>Procedure to Convert an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-605</u>	<u>Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance</u>	<u>N</u>	<u>*</u>
<u>BAAQMD · Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements -and Visible Emissions (12/19/1990/12/5/2007)</u>		
<u>6-1-301</u>	Ringelmann No. 1 Limitation	<u>Y</u> N	
<u>6-1-310</u>	Particulate Weight Limitation	<u>N</u> Y	
<u>6-1-310.3</u>	Heat Transfer Operation	<u>N</u> Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	<u>N</u>	
BAAQMD · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-310.3	Heat Transfer Operation	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	<u>Y</u>	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	<u>YN</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9	NOx and CO from Petroleum Refinery Boilers, Steam Generators, &		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 10	Process Heaters (03/29/200102/2008)		
9-10-502	Monitoring <u>for sources subject to 9-10-303</u>	Y	
9-10-502.2	Monitoring	Y	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-303</u>	<u>Y</u>	
<u>9-10-505</u>	<u>Reporting requirements for sources subject to 9-10-303 and/or 306</u>	<u>Y</u>	
<u>BAAQMD Regulation 10BAAQMD- Regulation 10 Subpart J</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)NSPS Incorporation by Reference, Petroleum Refineries- (02/16/2000)</u>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/200606/24/2008)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants , FCCU Catalyst Regenerators Devices at Refineries , and Fuel Gas Combustion Devices and Claus Sulfur Recovery Plants (20 LTD) Fuel Gas Combustion Devices of Refineries .	Y	
60.100(b)	Applicability: Constructed/modified after 6/11/1973 <u>and before May 14, 2007</u>	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title	NSPS 40 Part 60 Appendix B (09/21/2006)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Appendix B			
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase) Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reporting requirements (2-9-303.3) Quarterly and annual	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	reports (Regulation 2-9-303.3)		
Part 3	Annual District review of ACP (2-9-303.3) Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 9296			
Part D1	NOx abatement requirements (9-10, Offsets, Cumulative Increase) For the S-40 Steam Boiler: The steam boiler (S-40) shall be equipped with Low NOx burners and flue gas recirculation. [BAAQMD 9-10, Offsets, Cumulative Increase]	Y	
Part D2	NOx concentration emission limit (Offsets) For the S-40 Steam Boiler: The NOx concentration shall not exceed 30 ppmv, dry, corrected to 3 oxygen, as averaged over any 12-month period. [Basis: Offsets]	Y	
Part D3	CO concentration emission limit (9-10, Cumulative Increase) For the S-40 Steam Boiler: The CO concentration shall not exceed 400 ppmv, dry, corrected to 3 % oxygen. [BAAQMD 9-10, Cumulative Increase]	Y	
Part D4	TRS concentration emission limit (Offsets) The scrubber system upstream of S-40 Boiler shall have an annualized daily averaged (calendar year) total reduced sulfur concentration not to exceed 51 ppm, by volume. [Offsets]	Y	
Part D6	For the S-40 Steam Boiler: Permit Holder shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in Condition number 4. These records shall be retained for a period of at least 5 years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Banked POC credits] TRS CEM recordkeeping (Banked POC credits)	Y	
Part D7	The maximum firing rate of the S-40 Utility package Boiler shall not exceed 218 million Btu per hour. (Cumulative Increase, Toxics) Hourly firing rate limit (Cumulative Increase, Toxics)	Y	
<u>BAAQMD Condition 19329</u>	<u>To be deleted upon expiration of NOx IERCs</u>		
Part 1	Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reporting requirements (2-9-303.3)	N	
Part 3	Annual District review of ACP (2-9-303.3)	N	
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 10	The Permit Holder shall conduct a District approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂. [Basis: Regulation 9-10-305] S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
Part 14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NO_x limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41 S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NO_x CEM requirements (9-10-502.1)	Y	
BAAQMD Condition # 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)Regulation 9-10-502 Compliance (NO_x Box) Affected Sources and IERCs	<u>YN</u>	
Part 2	O₂ monitor requirements (Regulation 9-10-502)O₂ Monitoring Device Installation	<u>YN</u>	
Part 8	CO source test requirements (9-10-502)Periodic Source Testing for Sources with a NO_x CEM	<u>YN</u>	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)CO Exceedance and CEM Installation	<u>YN</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Records of source test data (9-10-504)Recordkeeping	Y N	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 10	S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
Part 14	S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP- Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>*</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>**</u>
<u>2-9-501</u>	<u>Monitoring and Record Keeping</u>	<u>N</u>	<u>**</u>
<u>2-9-502</u>	<u>Alternative Compliance Plan Record Keeping and Reporting</u>	<u>N</u>	<u>*</u>
<u>2-9-601</u>	<u>Emission Reduction Calculations - General Requirements</u>	<u>N</u>	<u>*</u>
<u>2-9-602</u>	<u>Emission Reduction Calculations – Baseline Throughput and Emission Rate</u>	<u>N</u>	<u>*</u>
<u>2-9-603</u>	<u>Methodology for Calculating IERCs from a Stationary Source</u>	<u>N</u>	<u>*</u>
<u>2-9-604</u>	<u>Procedure to Convert an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-605</u>	<u>Calculation Procedure to Determine the Required Amount of IERC's for</u>	<u>N</u>	<u>*</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	BARCT Compliance		
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	<u>N</u>	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	<u>Y</u>	
6-310	Particulate Weight Limitation	<u>Y</u>	
6-310.3	Heat Transfer Operation	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	<u>Y</u>	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.1	Initial Demonstration of Compliance	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	<u>N</u>	
9-10-505.1	Reporting Requirements	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/2004/02/2008)		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 10BAAQMD Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008/09/21/2006)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD) of Refineries.	Y	
60.100(b)	Applicability: Constructed/modified after 6/11/1973 <u>and before May 14, 2007</u>	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/21/2006)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329	To be deleted upon expiration of NOx IERCs		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase) Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3) Quarterly and annual reporting requirements (2-9-303.3)	N	
Part 3	Annual District review of ACP (2-9-303.3) Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping <u>requirements</u> (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 10	The Permit Holder shall conduct a District approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂. [Basis: Regulation 9-10-305] S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
Part 14	S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1) The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	
BAAQMD Condition # 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305) Regulation	<u>YN</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	9-10 Compliance (NOx Box) Affected Sources and IERCs		
Part 2	O2 monitor requirements (Regulation 9-10-502)O2 Monitoring Device Installation	<u>Y</u> N	
Part 8	CO source test requirements (9-10-502)Periodic Source Testing for Sources with a NOx CEM	<u>Y</u> N	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)CO Exceedance and CEM Installation	<u>Y</u> N	
Part 10	Records of source test data (9-10-504)Recordkeeping	<u>Y</u> N	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 10</u>	<u>S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)</u>	<u>Y</u>	<u>U</u>
<u>Part 14</u>	<u>S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD · Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-522.1</u>	<u>Approval of Plans and Specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>Scheduling Requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM Performance Testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>Reporting of Inoperative CEMS</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirement	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	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 Requirement	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	NY	
6-1-310	Particulate Weight Limitation	NY	
6-1-310.3	Heat Transfer Operation	NY	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process heaters (07/17/2002)		
9-10-112	Limited Exemption, Low Fuel Usage, (< 90,000 Therms/year), exempt from 9-10-301, 303, and 306	N	
9-10-306	Small Unit Requirements	NY	
9-10-306.2	Small Unit Requirements	Y	
9-10-402	Control Plan Submittal, Small Units	N	
9-10-502.2	Monitoring	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-504.2	Records	Y N	
9-10-505	Reporting Requirements for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-605	Tune-up Procedures	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (03/29/2001)		
9-10-112	Limited Exemption, Low Fuel Usage (< 90,000 Therms/year)	Y	
9-10-402	Control Plan Submittal, Small Units	Y	
9-10-502.2	Monitoring	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(f)	Semi-annual compliance report	Y	
60.107(g)	Certification of 60.107(f) report	Y	
40 CFR Part 60 Appendix B			
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	Y	
40 CFR Part 60			

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Appendix F			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) (excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition #24245, Part 7)</u>	<u>Y</u>	
BAAQMD Condition # 24245			
<u>Part 4</u>	<u>NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)</u>	<u>Y</u>	
<u>Part 7</u>	<u>CEMS accuracy test requirements (Consent Decree § 121)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-522.7	Emission Limit Exceedance Reporting Requirement	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP- Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirement	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>*</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>**</u>
<u>2-9-501</u>	<u>Monitoring and Record Keeping</u>	<u>N</u>	<u>**</u>
<u>2-9-502</u>	<u>Alternative Compliance Plan Record Keeping and Reporting</u>	<u>N</u>	<u>*</u>
<u>2-9-601</u>	<u>Emission Reduction Calculations - General Requirements</u>	<u>N</u>	<u>*</u>
<u>2-9-602</u>	<u>Emission Reduction Calculations – Baseline Throughput and Emission Rate</u>	<u>N</u>	<u>*</u>
<u>2-9-603</u>	<u>Methodology for Calculating IERCs from a Stationary Source</u>	<u>N</u>	<u>*</u>
<u>2-9-604</u>	<u>Procedure to Convert an ERC to an IERC</u>	<u>N</u>	<u>*</u>

IV. Source Specific Applicable Requirements

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 Process Furnace
 S-173 (F-902)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	*
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-310.3	Heat Transfer Operation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-301	Emission Limit for Facility NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	2
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	

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 Source-Specific Applicable Requirements
 Process Furnace
 S-173 (F-902)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	Y N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (04/02/2008/03/29/2004)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.2	Monitoring	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Regulation 10BAAQMD Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000);NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)		
10-14	Subpart J. Standards of Performance for Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants, (20 LTD)of Refineries.	Y	
60.100(b)	Applicability: Constructed/ reconstructed /modified after 6/11/1973 <u>and before May 14, 2007</u>	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)	Excess SO2 emission definitions for 60.7(c)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(ii)			
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/21/2006)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	

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 Source-Specific Applicable Requirements
 Process Furnace
 S-173 (F-902)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>2-9-605</u>	<u>Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance</u>	N	
BAAQMD Condition # 19329			
<u>Part 1</u>	<u>Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</u>	N	
<u>Part 2</u>	<u>Quarterly and annual reporting requirements (2-9-303.3)Quarterly and annual reports (Regulation 2-9-303.3)</u>	N	
<u>Part 3</u>	<u>Annual District review of ACP (2-9-303.3)Annual submittal of documents (Regulation 2-9-303.3)</u>	N	
<u>Part 4</u>	<u>Recordkeeping requirements (Regulation 2-9-303.3)</u>	N	
BAAQMD Condition # 254			
<u>Part 1</u>	<u>The NOx emission shall not exceed 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase] S-173 NOx concentration emission limit (Cumulative Increase)</u>	Y	
<u>Part 2</u>	<u>F-1060 operating limit (Cumulative Increase)Furnace F-1060 shall not operate for more than 30 days per year. [Basis: Cumulative Increase]</u>	Y	
<u>Part 3</u>	<u>Annual NOx source test (Cumulative Increase)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]</u>	Y	
<u>Part 4</u>	<u>Emission banking application requirements (Cumulative Increase)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]</u>	Y	
<u>BAAQMD Condition 19329</u>	<u>To be deleted upon expiration of NOx IERCs</u>		
<u>Part 1</u>	<u>Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)</u>	N	
<u>Part 2</u>	<u>Quarterly and annual reporting requirements (2-9-303.3)</u>	N	
<u>Part 3</u>	<u>Annual District review of ACP (2-9-303.3)</u>	N	

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 Source-Specific Applicable Requirements
 Process Furnace
 S-173 (F-902)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 10	The Permit Holder shall conduct a District approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂. [Basis: Regulation 9-10-305] S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
BAAQMD Condition # 21233			
Part 1	Regulation 9-10 Compliance (NOx Box) Affected Sources and IERCs Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y N	
Part 3	NOx Box Overview Operation (9-10-502)	Y N	
Part 4	NOx Box Establishment (9-10-502)	Y N	
Part 5	NOx Box Limits (9-10-502)	Y N	
Part 6	NOx Box Deviations (9-10-502)	Y N	
Part 7	Periodic Source Testing for Sources without a NOx CEM Source tests for NOx and CO at maximum NOx (9-10-502)	Y N	
Part 10	Recordkeeping Records of source test data (9-10-504)	Y N	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
			triggers
Part 10	S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	

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Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provision and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
<u>BAAQMD Regulation 2, Rule 9</u>	<u>Interchangeable Emission Reduction Credits (06/15/2005)</u> <u>* To be deleted upon startup of S-1059/S-1060 CO Furnaces</u> <u>** To be deleted upon expiration of NOx IERCs</u>		
<u>2-9-301</u>	<u>Bankable Interchangeable Emission Reduction Credits – General Provisions</u>	<u>N</u>	<u>*</u>
<u>2-9-302</u>	<u>Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-303</u>	<u>Alternative Compliance Plan using IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-304</u>	<u>Restrictions on the Use of IERC's</u>	<u>N</u>	<u>**</u>
<u>2-9-305</u>	<u>Conversion of an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-306</u>	<u>Environmental Benefit Surcharge</u>	<u>N</u>	<u>*</u>
<u>2-9-401</u>	<u>IERC Application</u>	<u>N</u>	<u>*</u>
<u>2-9-401.4</u>	<u>Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.</u>	<u>N</u>	<u>*</u>
<u>2-9-402</u>	<u>Complete IERC Banking Application</u>	<u>N</u>	<u>**</u>
<u>2-9-501</u>	<u>Monitoring and Record Keeping</u>	<u>N</u>	<u>**</u>
<u>2-9-502</u>	<u>Alternative Compliance Plan Record Keeping and Reporting</u>	<u>N</u>	<u>*</u>
<u>2-9-601</u>	<u>Emission Reduction Calculations - General Requirements</u>	<u>N</u>	<u>*</u>
<u>2-9-602</u>	<u>Emission Reduction Calculations – Baseline Throughput and Emission Rate</u>	<u>N</u>	<u>*</u>
<u>2-9-603</u>	<u>Methodology for Calculating IERCs from a Stationary Source</u>	<u>N</u>	<u>*</u>
<u>2-9-604</u>	<u>Procedure to Convert an ERC to an IERC</u>	<u>N</u>	<u>*</u>
<u>2-9-605</u>	<u>Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance</u>	<u>N</u>	<u>*</u>
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)</u>		
<u>6-1-301</u>	Ringelmann No. 1 Limitation	<u>NY</u>	
<u>6-1-310</u>	Particulate Weight Limitation	<u>NY</u>	
<u>6-1-310.3</u>	Heat Transfer Operation	<u>NY</u>	

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Source-Specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	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 (07/17/2002)		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAAQMD 9-10-301, 304, and 305)	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, and 305	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, and/or 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-601	Determination of Nitrogen Oxides	Y N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
SIP Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (04/02/200803/29/2001)		
9-10-502	Monitoring <u>for sources subject to 9-10-303</u>	Y	
9-10-502.2	Monitoring	Y	
<u>9-10-504.1</u>	<u>Recordkeeping for sources subject to 9-10-303</u>	<u>Y</u>	
<u>9-10-505</u>	<u>Reporting requirements for sources subject to 9-10-303 and/or 306</u>	<u>Y</u>	
BAAQMD Regulation 10 BAAQMD- Regulation 10 Subpart Db	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) 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	
<u>40 CFR Part 60 Subpart A</u>	<u>General Provisions (06/01/2006)</u>		
<u>60.13(i)</u>	<u>Alternative monitoring procedures</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Db	NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (11/16/2006)		
60.40b(a)	Applicable to Steam Generating Units	Y	
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	
60.44b(a)	NOx Standard	Y	
60.44b(a)(1)(i)	NOx Standard for Natural Gas and Distillate Oil, Low Heat Release Rate	Y	
60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion, including startup provisions	Y	
60.44b(h)	NOx standard applicable at all times	Y	
60.44b(i)	30-day rolling average	Y	
60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Times for Particulate Matter and Nitrogen Oxides		
60.46b(c)	Compliance determined per 60.46b(e)	Y	
60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
60.46b(e)(1)	Initial compliance test procedures	Y	
60.46b(e)(3)	30 day rolling average	Y	
60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1)	Y	
60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO ₂ Discharge.	Y	
60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
60.48b(d)	Continuous NO _x monitors measure 1-hour average NO ₂ emission rates	Y	
60.48b(e)	Complies with 60.13	Y	
60.48b(e)(2)	Span Values for NO _x . (Compliance demonstration through Alternate Monitoring Plan for alternate NO_x CEMS span approved by EPA February 5, 2009).	Y	
60.48b(e)(3)	Span Values for NO _x rounded to nearest 500ppm.	Y	
60.48b(f)	Standby Monitoring Systems	Y	
60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44	Y	
60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
60.49b(g)	Recordkeeping – NO _x data	Y	
60.49b(g)(1)	Calendar Date	Y	
60.49b(g)(10)	CEMS daily drift test results	Y	
60.49b(g)(2)	Average Hourly NO _x	Y	
60.49b(g)(3)	30-day Average NO _x	Y	
60.49b(g)(4)	Identification of 30-day Average NO _x	Y	
60.49b(g)(5)	Insufficient Data	Y	
60.49b(g)(6)	Excluding Data	Y	
60.49b(g)(7)	Identification of "F" factor	Y	
60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
60.49b(g)(9)	Modifications of CMS	Y	
60.49b(h)	Excess emission reports	Y	
60.49b(h)(2)	Subject to 60.44b NO _x standard	Y	
60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(i)	Reports of 60.49b(g) data	Y	
60.49b(o)	Records retained for 2 years	Y	
60.49b(v)	Electronic Quarterly Reports	Y	
60.49b(w)	Semi-Annual Reports	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD) of Refineries.	Y	
60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/21/2006)		
Performance Specification 2	NOx Continuous Emission Monitoring Systems <u>(06/13/2007)</u>	Y	
Performance Specification 7	H2S Continuous Emission Monitoring Systems <u>(10/17/2000)</u>	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)		
2-9-301	Bankable Interchangeable Emission Reduction Credits—General Provisions	N	
2-9-302	Use of IERC's	N	
2-9-303	Alternative Compliance Plan using IERC's	N	
2-9-304	Restrictions on the Use of IERC's	N	
2-9-305	Conversion of an ERC to an IERC	N	
2-9-306	Environmental Benefit Surcharge	N	
2-9-401	IERC Application	N	
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	
2-9-402	Complete IERC Banking Application	N	
2-9-501	Monitoring and Record Keeping	N	
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	
2-9-601	Emission Reduction Calculations—General Requirements	N	
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	
2-9-604	Procedure to Convert an ERC to an IERC	N	
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	
BAAQMD Condition # 19329			
Part 1	Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N	
Part 2	Quarterly and annual reporting requirements (2-9-303.3)Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual District review of ACP (2-9-303.3)Annual submittal of documents (Regulation 2-9-303.3)	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 10574	<u>Superseded by Condition 24197 Upon Startup of S-1061 and S-1062</u>		
Part 4	All CFP hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: (BACT)]	Y	
Part 5	Except as required by Condition number 4, CFP 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) graphite packed, (4) teflon packed valves or (5) equivalent. [(Basis: BACT)]	Y	
Part 7	All CFP flanges installed in the piping systems as a result of the CFP shall be equipped with graphite based gaskets, except in services that are not compatible with graphite material. Asbestos type gaskets shall be used in service where graphite based gaskets are not compatible. [Basis: (BACT, Offsets, Cumulative Increase, Toxics)].	Y	
Part 10	Deleted.		
Part 12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: (Cumulative Increase)]	Y	
Part 13	Refinery fuel gas H2S limits 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) the H2S concentration limitation specified in NSPS 40 CFR 60 Subpart J. [Basis: (Cumulative Increase, BACT, NSPS)]	Y	
Part 14	Refinery fuel gas TRS content limit (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT) The refinery fuel gas combusted in any CFP equipment shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y	
Part 15	Refinery fuel gas H2S and TRS CEM installation requirements (Monitoring and Records) 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	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date												
	the CFP combustion sources (S-21, S-22 and S-220). [Basis: Monitoring and Records].														
Part 16	Refinery fuel gas H2S and TRS CEM recordkeeping and quarterly reporting (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT) Permit Holder shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, Permit Holder shall report for S-220, S-21 and S-22: (a) the daily fuel consumption, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237, Boiler BACT]	Y													
Part 17	Natural gas, LPG/pentane, and refinery fuel gas firing restrictions and H2S concentration limit (BACT, Cumulative Increase) All new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]	Y													
Part 18	NOx, CO, SO2, PM10 and POC mass emission limits (SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888) 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, New Source Review trigger, Offsets, SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888]. <table border="0"> <tr> <td>Pollutant</td> <td>Tons/year</td> </tr> <tr> <td>NOx</td> <td>17.11 (S-220 only)</td> </tr> <tr> <td>CO</td> <td>134.904</td> </tr> <tr> <td>SO2</td> <td>59.358</td> </tr> <tr> <td>PM10</td> <td>26.981</td> </tr> <tr> <td>POC</td> <td>15.514</td> </tr> </table> (Note: Deleted. [Basis: There is no NOx increase in emissions from the S-21 and S-22 Hydrogen Heaters.]	Pollutant	Tons/year	NOx	17.11 (S-220 only)	CO	134.904	SO2	59.358	PM10	26.981	POC	15.514	Y	
Pollutant	Tons/year														
NOx	17.11 (S-220 only)														
CO	134.904														
SO2	59.358														
PM10	26.981														
POC	15.514														
Part 19	Equip the three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitoring requirement and recorder in order to determine fuel consumption. [Basis: Regulation 9-10-502.2]	Y													
Part 20	Annual NOx, CO, POC, SO2, and PM10 mass emissions calculation method (BACT, Cumulative Increase) Permit Holder shall calculate and totalize NOx, CO, POC, SO2 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels	Y													

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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]		
Part 21	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S-21, S-22 and S-220) or the three abatement devices (A-43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1 or 20% opacity. [Basis: BAAQMD 6-1-301]	Y	
Part 22	Definition of startup and shutdown periods (Cumulative Increase) For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]	Y	
Part 23	NOx concentration emission limit (BACT, Offsets, Cumulative Increase) Except	Y	
Part 24	CO concentration emission limit (BACT, Offsets, Cumulative Increase) For the	Y	
Part 25	NOx abatement requirements (BACT, Offsets, Cumulative Increase) S-220 shall be abated at all times by A-45 Selective Catalytic Reduction System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 26	Ammonia slip emission limit (BACT, Offsets, Cumulative Increase) Except during periods of startup and shutdown, ammonia emissions (ammonia slip) from the SCR unit (A-45) shall not exceed 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 27	NOx/O2 CEM requirements for S-220 (Monitoring) For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]	Y	
Part 29	Annual firing rate limit (BACT, Offsets, Cumulative Increase) The total combined heat input for S-220 shall not to exceed 28,908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]	Y	
Part 30	Hourly firing rate limit (Cumulative Increase, Toxics) The maximum firing rate of the S-220 MRU Hot Oil Furnace shall not exceed 351 million Btu	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	per hour. [Basis: Cumulative Increase, Toxics]		
Part F	CEM requirements for CFP (BACT)Each CEM shall be installed, maintained	Y	
Part G	Recordkeeping for sources installed by CFP (BACT)The Permit Holder shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: Fuel usage type and amount for: S-220 Hot Oil System S-21 – Hydrogen Reformer Furnace S-22 – Hydrogen Reformer Furnace CEM data and CEM indicated excesses; Fuel gas H2S concentration (24-hour Average); Fuel gas total reduced sulfur Concentration Average) Fuel gas usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual Firing Rate (Btu/month) Miscellaneous [Basis: BACT]	Y	
Part H	Process vessel depressurization requirement (Cumulative Increase)Any process vessel depressurization gas shall be vented to a control device with overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
BAAQMD Condition 19329	<u>To be deleted upon expiration of NOx IERCs</u>		
Part 1	Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reporting requirements (2-9-303.3)	N	
Part 3	Annual District review of ACP (2-9-303.3)	N	
Part 4	Recordkeeping requirements (Regulation 2-9-303.3)	N	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 10	S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test. S-220 CO CEM requirements (9-10-305)The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O2, operating day average, measured by a properly installed CEM for CO and O2. [Basis: Regulation 9-10-305]		
Part 14	S-3, S-4, S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1) The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	
BAAQMD Condition # 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305) Regulation 9-10-Compliance (NOx Box) Affected Sources and IERCs	<u>YN</u>	
Part 2	O2 monitor requirements (Regulation 9-10-502) O2 Monitoring Device Installation	<u>YN</u>	
Part 10	Records of source test data (9-10-504) Recordkeeping	<u>YN</u>	
<u>BAAQMD Condition 24197</u>	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 4</u>	<u>Hydrocarbon flow control valves (BACT)</u>	<u>Y</u>	
<u>Part 5</u>	<u>All other hydrocarbon valves greater than 2 inches (Basis: BACT)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Flanges installed in the piping systems (BACT, Offsets, Cumulative Increase, Toxics).</u>	<u>Y</u>	
<u>Part 12</u>	<u>Total fugitive POC emissions from all new and modified equipment (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 14</u>	<u>Refinery fuel gas TRS content limit (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT)</u>	<u>Y</u>	
<u>Part 15</u>	<u>Refinery fuel gas H2S and TRS CEM installation requirements (Monitoring and Records)</u>	<u>Y</u>	
<u>Part 16</u>	<u>Refinery fuel gas H2S and TRS CEM recordkeeping and quarterly reporting (Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 17	Natural gas, LPG/pentane, and refinery fuel gas firing restrictions and H2S concentration limit (BACT, Cumulative Increase)	Y	
Part 18	NOx, CO, SO2, PM10 and POC mass emission limits (SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888)	Y	
Part 20	Annual NOx, CO, POC, SO2, and PM10 mass emissions calculation method (BACT, Cumulative Increase)	Y	
Part 22	Definition of startup and shutdown periods (Cumulative Increase)	Y	
Part 23	NOx concentration emission limit (BACT, Offsets, Cumulative Increase)	Y	
Part 24	CO concentration emission limit (BACT, Offsets, Cumulative Increase)	Y	
Part 25	NOx abatement requirements (BACT, Offsets, Cumulative Increase)	Y	
Part 26	Ammonia slip emission limit (BACT, Offsets, Cumulative Increase)	Y	
Part 27	NOx/O2 CEM requirements for S-220 (Monitoring)	Y	
Part 29	Annual firing rate limit (BACT, Offsets, Cumulative Increase)	Y	
Part 30	Hourly firing rate limit (Cumulative Increase, Toxics)	Y	
Part F	CEM requirements for CFP (BACT)	Y	
Part G	Recordkeeping for sources installed by CFP (BACT)	Y	
Part H	Process vessel depressurization requirement (Cumulative Increase)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 10	S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-35, S-40, S-41, and S-173 semiannual CO source test, S-220 CO CEM requirements (9-10-305)	Y	
Part 14	S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220, S-40, and S-41 NOx CEM requirements (9-10-502.1)	Y	
BAAQMD Condition 24261			
Part 1	Alternate Monitoring Plans for NOx (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provision and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990 12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
6-1-310.3	Heat Transfer Operation	N Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-310	<u>Particulate Weight Limitation</u>	Y	
6-310.3	<u>Heat Transfer Operation</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	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	
<u>BAAQMD Regulation 10 BAAQMD- Regulation 10 Subpart Db</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) Federal NSPS, Industrial-Commercial-Institutional Steam Generating Units (02/16/2000)</u>		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
<u>BAAQMD- Regulation 10 Subpart J</u>	<u>NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</u>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<u>40 CFR Part 60 Subpart A</u>	<u>General Provisions (06/01/2006)</u>		
60.13(i)	<u>Alternative monitoring procedures</u>	Y	
NSPS Title 40 CFR Part 60 Subpart Db	NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (11/16/2006)		
60.40b(a)	Applicable to Steam Generating Units	Y	
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	
60.44b(h)	NOx standard applicable at all times	Y	
60.44b(i)	30-day rolling average	Y	
60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	
60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.46b(c)	Compliance determined per 60.46b(e)	Y	
60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
60.46b(e)(1)	Initial compliance test procedures	Y	
60.46b(e)(3)	30 day rolling average	Y	
60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1).	Y	
60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO ₂ Discharge.	Y	
60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
60.48b(d)	Continuous NO _x monitors measure 1-hour average NO ₂ emission rates	Y	
60.48b(e)	Complies with 60.13	Y	
60.48b(e)(2)	Span Values for NO _x . (Compliance demonstration through Alternate Monitoring Plan for alternate NO_x CEMS span approved by EPA February 5, 2009).	Y	
60.48b(e)(3)	Span Values for NO _x rounded to nearest 500ppm.	Y	
60.48b(f)	Standby Monitoring Systems	Y	
60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
60.49b(g)	Recordkeeping – NO _x data	Y	
60.49b(g)(1)	Calendar Date	Y	
60.49b(g)(10)	CEMS daily drift test results	Y	
60.49b(g)(2)	Average Hourly NO _x	Y	
60.49b(g)(3)	30-day Average NO _x	Y	
60.49b(g)(4)	Identification of 30-day Average NO _x	Y	
60.49b(g)(5)	Insufficient Data	Y	
60.49b(g)(6)	Excluding Data	Y	
60.49b(g)(7)	Identification of "F" factor	Y	
60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
60.49b(g)(9)	Modifications of CMS	Y	
60.49b(h)	Excess emission reports	Y	
60.49b(h)(2)	Subject to 60.44b NO _x standard	Y	
60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
60.49b(i)	Reports of 60.49b(g) data	Y	
60.49b(o)	Records retained for 2 years	Y	
–60.49b(v)	Electronic Quarterly Reports	Y	
–60.49b(w)	Semi-Annual Reports	Y	
NSPS Title 40 CFR Part 60	NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart J			
60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries, and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants of Refineries.	Y	
60.100(b)	Applicability: Constructed/ reconstructed /modified after 6/11/1973 <u>and before May 17, 2004</u>	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/21/2006)		
Performance Specification 2	NOx Continuous Emission Monitoring Systems <u>(06/13/2007)</u>	Y	
Performance Specification 7	H2S Continuous Emission Monitoring Systems <u>(10/17/2000)</u>	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems <u>(06/13/2007)</u>	Y	
BAAQMD Condition # 16027			
Part 1	Fugitive Emissions Components: All hydrocarbon valves greater than 2 inches shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) teflon packed valves or (5) equivalent. All flanges installed in the piping systems shall be equipped with graphitic-	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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>		
Part 3	Refinery fuel gas H2S content limit (Cumulative Increase, BACT)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) the H2S concentration limitation specified in NSPS 40 CFR 60 Subpart J. <Basis: Cumulative Increase, BACT, NSPS>	Y	
Part 4	Refinery fuel gas TRS content limits. (BACT, Contemporaneous offsets for SO2 and PM10 emissions)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 SO2 and PM10 emissions>	N	
Part 5	Refinery fuel gas H2S and TRS CEM requirements for S-237 (Cumulative Increase)Fuel Gas System: The Permit Holder shall install and operate a District continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in any downstream combustion source including _____ the S-237 Boiler. <Basis: Cumulative Increase>	Y	
Part 6	H2S and TRS CEM recordkeeping and quarterly reporting (Cumulative Increase)Fuel Gas System: The Permit Holder shall calculate and record the 24 hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions number 3 and 4, based on the previous 24 individual hourly averages. On a quarterly basis, the Permit Holder shall report: (a) the daily fuel consumption at S-237, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. <Basis Cumulative Increase>	Y	
Part 7	Natural gas, LPG/pentane, and refinery fuel gas firing restrictions and fuel gas H2S and TRS content limit (Cumulative Increase, Toxics, offsets, BACT, Contemporaneous offsets for SO2 and PM10 emissions)The S-237 Boiler shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. <Basis: Cumulative Increase, Toxics, offsets>	Y	
Part 8	NOx, CO, SO2, PM10, and POC mass emission limits and emission factors	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date																						
	<p>(Cumulative Increase, Offsets) Total emissions from this combustion source (S-237) including startups and shutdowns, shall not exceed the following annual limits:</p> <table border="0"> <tr> <td>Pollutant</td> <td>Annual (tons)</td> </tr> <tr> <td>NOx</td> <td>13.278</td> </tr> <tr> <td>CO</td> <td>44.721</td> </tr> <tr> <td>SO2</td> <td>8.644</td> </tr> <tr> <td>PM10</td> <td>3.132</td> </tr> <tr> <td>POC</td> <td>2.881</td> </tr> </table> <p>Combustion emissions shall be calculated using the following emission factors:</p> <table border="0"> <tr> <td>NOx</td> <td>Summation of daily emissions using CEM data</td> </tr> <tr> <td>CO</td> <td>0.0200 lb/MMBtu</td> </tr> <tr> <td>SO2</td> <td>0.0069 lb/MMBtu</td> </tr> <tr> <td>PM10</td> <td>0.0025 lb/MMBtu</td> </tr> <tr> <td>POC</td> <td>0.0023 lb/MMBtu</td> </tr> </table> <p><Basis: Cumulative Increase, Offsets></p>	Pollutant	Annual (tons)	NOx	13.278	CO	44.721	SO2	8.644	PM10	3.132	POC	2.881	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		
Pollutant	Annual (tons)																								
NOx	13.278																								
CO	44.721																								
SO2	8.644																								
PM10	3.132																								
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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																								
Part 9	<p>The S-237 Boiler shall be equipped with a District approved continuous fuel flow monitoring requirements and recorder in order to determine fuel consumption. (This is a parametric monitor as defined in Regulation 1-238.)</p> <p><Basis: (Monitoring and Records)></p>	Y																							
Part 10	<p>Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1 or 20% opacity limitation, as required by Regulation 6.</p> <p><Basis: (BAAQMD 6-1-301/SIP 6-301)></p>	Y																							
Part 11	<p>Definition of startup and shutdown periods (Cumulative Increase, offsets, operational allowances) 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.</p> <p><Basis: Cumulative Increase, offsets, operational allowances></p>	Y																							
Part 12	<p>NOx concentration emission limit (BACT, offsets) 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.</p> <p><Basis: BACT, offsets></p>	Y																							
Part 13	<p>CO concentration emission limit (BACT) 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</p> <p><Basis: BACT></p>	Y																							

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 14	NOx abatement requirements (BACT)S-237 shall be abated at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. <Basis: BACT control>	Y	
Part 15	Ammonia slip emission limit (Cumulative Increase, Monitoring, Toxics)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 initial source test data. <Basis: Cumulative Increase, Toxics>	Y	
Part 16	NOx/O2 CEM requirements for S-237 (Monitoring and Records)The Permit Holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. <Monitoring and records>	Y	
Part 18	Annual firing rate limit (Cumulative Increase, Offsets)The total combined heat input for S-237 shall not exceed 2,505,360 million BTUs (HHV) in any 365 consecutive day period. <Basis: Cumulative Increase, Offsets>	Y	
Part 19	Daily firing rate limit (Cumulative Increase)The total combined heat input for S-237 shall not exceed 7,560 million BTUs in any calendar day period. <Basis: Cumulative Increase>	Y	
Part 22	Annual CO source test requirement (2-6-503)The Owner/Operator shall conduct a District-approved source test on an annual basis on Source S-237 to demonstrate compliance with the limit in Part 13 of this condition. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from the date of entry and shall be made available to District staff upon request. <Basis: Regulation 2-6-503>	Y	
BAAQMD Condition # 19466			
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. These records shall be kept for a period of at least 5 years from date of entry and shall be made	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	available to District staff upon request. [Basis: Regulation 6.301] S. 1, S. 2, S. 8, S. 11, S. 176, and S. 233 monthly visible emissions monitoring (6.1.301)		
<u>BAAQMD Condition 24261</u>			
<u>Part 1</u>	<u>Alternate Monitoring Plans for NOx (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)</u>	<u>Y</u>	

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-26078B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1999/12/5/2007)		
6-1-303.1	Ringelmann No. 2 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-303.1</u>	<u>Ringelmann No. 2 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 Rule 8 ·	Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (07/25/2007)		
9-8-110.5	Exemptions: Emergency Standby Engines	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	<u>1/1/2012</u>
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Hours of operation (total)	N	
9-8-530.2	Hours of operation (emergency)	N	
9-8-530.3	Nature of emergency condition	N	
<u>CCR, Title 17, Section 93115</u>	<u>ATCM for Stationary Compression Ignition Engines</u>		
<u>93115.3</u>	<u>Exemptions</u>	<u>N</u>	
<u>93115.3(n)</u>	<u>Operating limits in 93115.6(b)(3) do not apply to fire pumps driven by stationary CI engines and are only operated the number of hours necessary</u>	<u>N</u>	

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-26078B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>to comply with NFPA 25 testing requirements</u>		
<u>93115.5</u>	<u>Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)</u>	<u>N</u>	
<u>93115.5(b)</u>	<u>Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines</u>	<u>N</u>	
<u>93115.5(b)(1)</u>	<u>Must use CARB Diesel Fuel</u>	<u>N</u>	
<u>93115.10(g)</u>	<u>Reporting Requirements for Emergency Standby Engines</u>	<u>N</u>	
<u>93115.15</u>	<u>Severability</u>	<u>N</u>	
CARB-ATCM	Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations;	N	
BAAQMD Condition 2285124310			
Part 1	Operating hour limit <u>Reliability-related testing limit ("Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations)</u>	Y	
Part 2	Allowable periods of operation <u>Emergency standby engine operations (BAAQMD Regulation 9-8-330Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3))</u>	Y	
Part 3	<u>Emergency standby engine non-resettable totalizing meter requirements (BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1)Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1))</u> Non-resettable totalizing meter requirement	Y	
Part 4	<u>Emergency standby engine recordkeeping (BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), or Regulation 2-6-501) Recordkeeping</u>	Y	
Part 5	<u>Requirements for emergency standby engine located at or near school (Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1) or (e)(2)(B)(2))School Proximity Requirement</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provision and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring Requirements and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP· Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/1990 12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
6-1-310.3	Heat Transfer Operation	N Y	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP · Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Heat Transfer Operation</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
BAAQMD · Regulation 9 Rule 9	Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/06/2006)		
9-9-113	Exemption, Inspection and Maintenance Periods	N	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours	N	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	N	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	N	
9-9-114	Exemption, Start-up and Shutdown Periods	N	
9-9-115	Limited Exemption, Minor Inspection and Maintenance Work	N	
9-9-301.1.3	NOx Emission Limit for Gas Turbines > 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	N	
9-9-301.2	Alternative NOx Emission Limits for Gas Turbines >250 – 500 MM Btu/hr	N	1/1/2010
9-9-301.3	NOx Emission Limit for Mixtures of Fuels	N	1/1/2010
9-9-301.4	Rebuttal Option for Alternative NOx Emission Limits	N	1/1/2010
9-9-401	Certification, Efficiency	N	
9-9-501	Monitoring and Recordkeeping Requirements	N	
9-9-603	Continuous Emission Monitoring (establishes three-hour averaging period)	N	
9-9-604	Determination of Stack Gas Oxygen	N	
SIP · Regulation 9 Rule 9	Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (12/15/1997)		
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 - A22.1
 Source-Specific Applicable Requirements
 COGEN (Phase 1) Turbine S-1030 (GT-4901)**

Applicable Requirement	Regulation Title or Description of Requirement	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	Emission Limits, General	Y	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	Y	
9-9-401	Certification, Efficiency	Y	
9-9-601	Determination of Emissions	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD Regulation 10BAAQMD- Regulation 10 Subpart J	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000); NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
BAAQMD- Regulation 10 Subpart GG	NSPS Incorporation by Reference, Stationary Gas Turbines (02/16/2000)		
10-40	Subpart GG. Standards of Performance For Stationary Gas Turbines	Y	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/2006)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants , FCCU Catalyst Regenerators at Refineries, and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants of Refineries.	Y	
60.100(b)	Applicability: Constructed/ reconstructed /modified after 6/11/1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except or gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
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	

IV. Source Specific Applicable Requirements

**Table IV - A22.1
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 COGEN (Phase 1) Turbine S-1030 (GT-4901)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.105(a)(4)(iii)	Performance evaluations for continuous H2S monitor.	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Subpart GG	NSPS GG for Stationary Gas Turbines (02/24/2006)		
60.330(a)	Applicable to Stationary Gas Turbines greater than 10 MM Btu/hr	Y	
60.330(b)	Applicable to Facilities Constructed after October 3, 1977	Y	
60.333(b)	Fuel Sulfur Content cannot exceed 0.8 percent by weight	Y	
60.334(h)	Fuel sulfur content monitoring	Y	
60.334(h)(1)	Fuel sulfur content monitoring	Y	
60.334(h)(3)	Fuel sulfur content monitoring not required for natural gas-only firing conditions	Y	
60.334(i)	Fuel sulfur content monitoring frequency	Y	
60.334(i)(3)	Custom schedules for determination of fuel sulfur content	Y	
60.334(i)(3)(i)	Custom schedules for determination of fuel sulfur content	Y	
60.334(j)	Excess emission reporting per 60.7(c)	Y	
60.334(j)(2)	Excess emission definition for fuel sulfur content	Y	
60.334(j)(2)(i)	Excess emission definition for fuel sulfur content	Y	
60.334(j)(2)(iii)	Monitor downtime period definition	Y	
60.334(j)(5)	Excess emission reports due the 30th day following end of each calendar quarter	Y	
60.335(b)(10)	Method for fuel sulfur content monitoring	Y	
60.335(b)(10)(ii)	- ASTM D1072-80, 90 (Reapproved 1994) for gaseous fuels	Y	
60.335(b)(11)	Fuel sulfur analysis can be performed by owner/operator, service contractor, fuel vendor, or other qualified agency	Y	
40 CFR Part 60 Appendix B			
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	Y	
40 CFR Part 60 Appendix F			
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
BAAQMD Condition # 19177			

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the owner will provide the following offsets: Offsets (Basis: NOx and POC) Phase I (S-1030 and S-1031) NOx: 13.162TPY from Certificate # 703	Y	
Part 2	<u>SO2 emission offsets, Curtailment Group, emission calculation methods, and quarterly reporting (SO2 offsets)</u> 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) 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. e. A quarterly report of the group emissions will be submitted to the District, in a District approved format, to document compliance.	Y	
Part 6	Coincident with the as designed operation of A-60 SCR System, the Gas Turbines (S-1030) and the HRSG (S-1031) shall comply with the NOx and CO emission limitations specified in conditions 18(a), 18(b), 19(b) and 19(d). NOx and CO emission limits (BACT)	Y	
Part 13	The Gas Turbine (S-1030) and HRSG Duct Burner (S-1031) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10) Refinery gas and natural gas firing restrictions (BACT for SO2 and PM10)	Y	
Part 14	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031) shall each not exceed 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in the power train (S-1030) shall not exceed 500 MM Btu/hr (Basis: Cumulative Increase, Permit Fees, Modification, Offsets) Hourly firing rate limits (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)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 15	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031) shall each not exceed 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets) Daily firing rate limit (Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 16	The combined cumulative heat input rate for the power train consisting of Phase I (S-1030 and S-1031) shall not exceed 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification) Annual firing rate limit (Offsets, Cumulative Increase, Modification)	Y	
Part 17	NOx and CO abatement requirements (BACT for NOx) S-1030 Gas Turbine a	Y	
Part 18	The Gas Turbine (S-1030) and HRSG (S-1031) 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) Natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 18(a)(1)	Emissions of nitrogen oxides (NOx) at emission points P-60 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) NOx concentration emission limit, natural gas firing (BACT for NOx when firing natural gas)	Y	
Part 18(b)	The carbon monoxide emissions concentration at P-60 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) CO concentration emission limit, natural gas firing (BACT for CO when firing natural gas)	Y	
Part 18(c)	Ammonia (NH3) emission concentrations at P-60 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics) NH3 concentration emission limit, natural gas firing (Toxics)	Y	
Part 18(d)	The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH4) from P-60 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/HRSG train. (Basis: BACT for POC when firing natural gas) POC mass emission limit, natural gas firing (BACT for POC when firing natural gas)	Y	
Part 18(e)	For sulfur dioxide (SO2) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	be demonstrated in accordance with condition # 35. (Basis: BACT for SO₂ when firing natural gas), SO₂ grain loading emission limit, natural gas firing and pipeline quality natural gas restriction (BACT for SO₂ when firing natural gas)		
Part 18(f)	For particulate (PM₁₀) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 sef 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) PM₁₀ grain loading emission limit, natural gas firing and pipeline quality natural gas restriction (BACT for PM₁₀ when firing natural gas)	Y	
Part 19	The Gas Turbines (S-1030) and HRSGs (S-1031) 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) Refinery fuel gas and natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 19(a)	NO_x mass emission limit, refinery fuel gas and natural gas firing (BACT for NO_x, Offsets) Emissions of nitrogen oxides (NO_x), 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) shall not exceed 7.29 pounds per clock hour. (Basis: BACT for NO_x, Offsets)	Y	
Part 19(b)	Emissions of nitrogen oxides (NO_x) at emission points P-60 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O₂, averaged over any 3-clock hour period (Basis: BACT for NO_x) NO_x concentration emission limit, refinery fuel gas and natural gas firing (BACT for NO_x)	Y	
Part 19(c)	Carbon monoxide mass emissions at P-60 shall not exceed 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO) CO mass emission limit, refinery fuel gas and natural gas firing (PSD for CO)	Y	
Part 19(d)	The carbon monoxide emission concentration at P-60 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) CO concentration limit, refinery fuel gas and natural gas firing (BACT for CO)	Y	
Part 19(e)	Ammonia (NH₃) emission concentrations at P-60 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O₂, averaged over any rolling	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	3-hour period. (Basis: Toxics) NH3 concentration limit, refinery fuel gas and natural gas firing (Toxics)		
Part 19(f)	Precursor organic compound (POC) mass emissions (as CH4) at P-60 shall not exceed 2.037 pounds per hour. Demonstration of compliance will be based on source test results. (Basis: BACT) POC mass emission limit, refinery fuel gas and natural gas firing (BACT)	Y	
Part 19(g)	Sulfur dioxide (SO2) mass emissions at P-60 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 and S-1031 shall not exceed 100 ppm TRS (rolling 24 hour average). (Basis: BACT) Hydrogen sulfide (H2S) concentrations in refinery fuel gas shall not exceed the H2S concentration limitation specified in NSPS 40 CFR 60 Subpart J. (Basis: NSPS) SO2 mass emission limit, TRS concentration limits, refinery fuel gas and natural gas firing (BACT)	Y	
Part 19(h)	The Owner/Operator shall limit the particulate matter (PM10) mass emissions from P-60 to no more than 4.65 pounds per hour averaged over any consecutive 24 hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr averaged over any consecutive 24 hours. Demonstration of compliance will be based on source test results. (Basis: BACT for PM10) PM10 mass emission limit, refinery fuel gas and natural gas firing (BACT for PM10)	Y	
Part 20	The sulfuric acid emissions (SAM) from P-60 combined shall be less than 7 tons in any consecutive four quarters. (Basis: PSD) Sulfuric Acid Emissions (SAM) mass emission limit (PSD)	Y	
Part 22	Total emissions from the Phase I power train consisting of S-1030 and S-1031 shall not exceed the following annual limits (365-day rolling average): (Basis: Cumulative Increase, Offsets, PSD) Mass emission limits (Cumulative Increase, Offsets, PSD)	Y	
Part 22(a)	Phase I (S-1030 and S-1031) NOx — 28.603 TPY (based on CEM data) POC — 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY) SOx — 15.0 (based on TRS measurement) CO — 41.9285 TPY (based on CEM data) PM10 — 6.803 TPY (based on source test results) NOx, POC, SOx, CO, and PM10 mass emission limits (Cumulative Increase, Offsets, PSD)	Y	
Part 22(b)	The PM10 emissions may be adjusted based on source test results for S-1030 and S-1031 if the particulate emission rate exceeds the assumed level.	Y	

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**Table IV - A22.1
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 COGEN (Phase 1) Turbine S-1030 (GT-4901)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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. 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 two boilers (S-38 and S-39). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets) PM10 adjustment allowance (Cumulative Increase, Offsets)		
Part 22(c)	The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Condition 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I. 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 two boilers (S-38 and S-39). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets) PM10 adjustment basis (Cumulative Increase, Offsets)	Y	
Part 22(d)	The owner shall prepare an annual calendar year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The report shall be submitted to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring) Annual emissions reporting (Compliance Monitoring)	Y	
Part 23	To demonstrate compliance with conditions 19(f), 19(g), 19(h), 20 and parts of 22, the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The owner/operator shall use the actual Heat Input Rates and District approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows: (a) For each calendar day, POC, PM10, SAM and SO2 emissions shall be summarized for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] (b) On a daily basis, the 365-day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for the power train: Gas Turbine (S-1030)/HRSG (S-1031). (Basis: Offsets, PSD, Cumulative Increase) Daily emission	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>calculations (Offsets, PSD, Cumulative Increase)</u>		
Part 24	The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM10 emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: Offsets, PSD, cumulative increase) <u>Source test requirements (Offsets, PSD, Cumulative Increase)</u>	Y	
Part 25	The owner/operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502) <u>Reporting requirements (2-6-502)</u>	Y	
Part 26	The owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501) <u>Recordkeeping requirements (2-6-501)</u>	Y	
Part 27	The owner/operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 28	The stack height of emission point P-60 shall be at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP) Stack height requirement (PSD, TRMP)	Y	
Part 29	The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501) Stack sampling ports and platforms requirement (1-501)	Y	
Part 31	The startup period for the Gas Turbine/HRSG shall last for no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics] Startup period limits (Cumulative Increase, Toxics)	Y	
Part 34	The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7) Emission monitoring compliance with 40 CFR Part 75 (2-7)	Y	
Part 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 and S-1031). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO₂, BACT) Refinery fuel gas H₂S and TRS CEM requirements for S-1030 and S-1031 (Refinery fuel gas and natural gas monitoring for SO₂, BACT)	Y	
Part 36	The owner shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H₂S content of the refinery fuel gas. On a quarterly basis, the owner shall report: (a) the daily fuel consumption, (b) hourly H₂S content (as averaged over 3 consecutive hours) of the refinery fuel gas, (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours), (d) quarterly daily averaged H₂S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged reduced sulfur content using the last four quarters. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the quarter. (Basis: BACT, Offsets, Cumulative Increase) Fuel gas TRS and H₂S content recordkeeping and reporting (BACT, Offsets, Cumulative Increase)	Y	
Part 37	The two sources (S-1030 and S-1031) 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) Fuel flow monitor requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 38	The owner shall install, calibrate, maintain and operate a District approved continuous emission monitor and recorder for NOx, CO and O2. (Basis: BACT, Offsets, Cumulative Increase) <u>NOx, CO, O2 CEM requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)</u>	Y	
Part 39	The owner shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT] <u>POC and PM10 quarterly source test (BACT)</u>	Y	
Part 40	The owner shall conduct a quarterly source test to demonstrate compliance with condition 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO2, SO3, SAM and ammonium sulfates. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. (Basis: Cumulative Increase) <u>Sulfuric Acid Mist (SAM) source test (Cumulative Increase)</u>	Y	
Part 41	All hydrocarbon control valves installed as part of the Cogeneration Project in Phase I shall be equipped with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets) <u>Hydrocarbon control valves requirement. (Basis: Cumulative Increase Offsets)</u>	Y	
Part 43	All connectors installed in the piping systems as a result of Phase I of the Cogeneration project shall be equipped with graphitic based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase) <u>Connectors requirements. (Basis: RACT, offsets, Cumulative Increase)</u>	Y	
Part 44	All new hydrocarbon centrifugal compressors installed as part of Phase I 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 be leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase) <u>Hydrocarbon centrifugal compressors requirement. (Basis: RACT, Offsets, Cumulative Increase)</u>	Y	
Part 46	The Cogeneration project consisting of S-1030 and S-1031 shall include the	Y	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provision and Definitions (07/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring Requirements		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y	
6-1-310	Particulate Weight Limitation	Y	
6-1-310.3	Heat Transfer Operation	Y	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Heat Transfer Operation</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
BAAQMD · Regulation 9 Rule 3	Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (07/17/2002)		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD · Regulation 9 Rule 11	Inorganic Gaseous Pollutants, NO_x and CO from Utility Electric Power Gen Boilers (5/17/2000)		
9-11-114	Exemption, Heat Recovery Steam Generators	Y	
<u>BAAQMD Regulation 10 BAAQMD- Regulation 10 Subpart Db</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) Federal-NSPS, Industrial-Commercial-Institutional Steam Process Heaters- Generating Units (02/16/2000)</u>		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
<u>BAAQMD- Regulation 10 Subpart J</u>	<u>NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</u>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<u>40 CFR Part 60 Subpart A</u>	<u>General Provisions (06/01/2006)</u>		
<u>60.13(i)</u>	<u>Alternative monitoring procedures</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Db	NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (11/16/2006)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.40b(a)	Applicable to Steam Generating Units	Y	
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	
60.44b(a)	NOx Standard for Natural Gas only firing	Y	
60.44b(a)(4)	NOx Standard for Natural Gas only firing	Y	
60.44b(h)	NOx standard applicable at all times	Y	
60.44b(i)	30-day rolling average	Y	
60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	
60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
60.46b(c)	Compliance determined per 60.46b(e)	Y	
60.46b(f)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
60.46b(f)(1)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
60.46b(f)(2)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
60.46b(f)(2)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.	Y	
60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1).	Y	
60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO2 Discharge.	Y	
60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
60.48b(d)	Continuous NOx monitors measure 1-hour average NO2 emission rates	Y	
60.48b(e)	Complies with 60.13	Y	
60.48b(e)(2)	Span Value for Nitrogen Oxides (Compliance demonstration through Alternate Monitoring Plan for alternate NOx CEMS span approved by EPA February 5, 2009).	Y	
60.48b(e)(3)	Span Value for Nitrogen Oxides rounded to nearest 500 ppm	Y	
60.48b(f)	Standby Monitoring Systems	Y	
60.49b(a)	Report Date of Initial Startup	Y	
60.49b(a)(1)	Report Heat Input Capacity and Identify Fuels to be Combusted	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(a)(2)	Report of Federally Enforceable Requirement that Limits Annual Fuel Capacity.	Y	
60.49b(a)(3)	Report Annual Capacity Factor for all Fuels Fired	Y	
60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
60.49b(g)	Recordkeeping – NOx data	Y	
60.49b(g)(1)	Calendar Date	Y	
60.49b(g)(10)	CEMS daily drift test results	Y	
60.49b(g)(2)	Average Hourly NOx	Y	
60.49b(g)(3)	30-day Average NOx	Y	
60.49b(g)(4)	Identification of 30-day Average NOx	Y	
60.49b(g)(5)	Insufficient Data	Y	
60.49b(g)(6)	Excluding Data	Y	
60.49b(g)(7)	Identification of "F" factor	Y	
60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
60.49b(g)(9)	Modifications of CMS	Y	
60.49b(h)	Excess emission reports	Y	
60.49b(h)(2)	Subject to 60.44b NOx standard	Y	
60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
60.49b(i)	Reports of 60.49b(g) data	Y	
60.49b(o)	Records retained for 2 years	Y	
60.49b(v)	Electronic Quarterly Reports	Y	
60.49b(w)	Semi-Annual Reports	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		
60.100(a)	Applicability: Claus Sulfur Recovery Plants , FCCU Catalyst Regenerators, at Refineries and Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD) Fuel Gas Combustion Devices of Refineries.	Y	
60.100(b)	Applicability: Constructed/ reconstructed /modified after 6/11/1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
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	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
60.106(a)	Test Methods and Procedures	Y	
60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
60.107(fe)	Semi-annual compliance report	Y	
60.107(gf)	Certification of 60.107(fe) report	Y	
NSPS Title 40 CFR Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/21/2006)		
Performance Specification 2	NOx Continuous Emission Monitoring Systems (06/13/2007)	Y	
Performance Specification 7	H2S Continuous Emission Monitoring Systems (10/17/2000)	Y	
NSPS Title 40 CFR Part 60 Appendix F	NSPS 40 Part 60 Appendix F (01/12/2004)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	
BAAQMD Condition # 19177			
Part 1	Offsets (NOx and POC) 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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	following offsets: (Basis: NOx and POC) Phase I (S-1030 and S-1031) NOx: 13.162TPY from Certificate # 703		
Part 2	<p>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 SG2304 Phase I New GT/HRSG (S-1030 & S-1031)</p> <p>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.</p> <p>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.</p> <p>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)SO2 emission offsets, Curtailment Group, emission calculation methods, and quarterly reporting (SO2 offsets)</p>	Y	
Part 6	<p>Coincident with the as designed operation of A-60 SCR System, the Gas Turbine (S-1030) and the HRSG (S-1031) shall comply with the NOx and CO emission limitations specified in conditions 18(a), 18(b), 19(b) and 19(d). NOx and CO emission limits (BACT)</p>	Y	
Part 13	<p>The Gas Turbine (S-1030) and HRSG Duct Burner (S-1031) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)Refinery gas and natural gas firing restrictions (BACT for SO2 and PM10)</p>	Y	
Part 14	<p>The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031) shall each not exceed 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in the power train (S-1030) shall not exceed 500 MM Btu/hr (Basis: Cumulative Increase, Permit Fees, Modification, Offsets) Hourly firing rate</p>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>limits (Cumulative Increase, Permit Fees, Modification, Offsets)</u>		
Part 15	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031) shall each not exceed 19,440 MM-Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets) Daily firing rate limit (Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 16	Annual firing rate limit (Offsets, Cumulative Increase, Modification) The com	Y	
Part 17	NOx and CO abatement requirements (BACT for NOx) S-1031 HRSG shall be abated by the properly operated and properly maintained A-60 Selective Catalytic Reduction (SCR) System and A-61 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	
Part 18	The Gas Turbine (S-1030) and HRSG (S-1031) 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) <u>Natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)</u>	Y	
Part 18(a)(1)	Emissions of nitrogen oxides (NOx) at emission points P-60 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) <u>NOx concentration emission limit, natural gas firing (BACT for NOx when firing natural gas)</u>	Y	
Part 18(b)	The carbon monoxide emissions concentration at P-60 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: BACT for CO when firing natural gas) <u>CO concentration emission limit, natural gas firing (BACT for CO when firing natural gas)</u>	Y	
Part 18(c)	Ammonia (NH3) emission concentrations at P-60 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics) <u>NH3 concentration emission limit, natural gas firing (Toxics)</u>	Y	
Part 18(d)	The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH4) from P-60 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM-Btu when firing natural gas throughout the gas turbine/HRSG train. (Basis: BACT for POC when firing natural gas) <u>POC mass emission limit, natural gas firing (BACT for POC when firing natural gas)</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 18(e)	For sulfur dioxide (SO₂) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for SO₂ when firing natural gas); SO₂ grain loading emission limit, natural gas firing and pipeline quality natural gas restriction (BACT for SO₂ when firing natural gas)	Y	
Part 18(f)	For particulate (PM₁₀) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for PM₁₀ when firing natural gas) PM₁₀ grain loading emission limit, natural gas firing and pipeline quality natural gas restriction (BACT for PM₁₀ when firing natural gas)	Y	
Part 19	The Gas Turbine (S-1030) and HRSG (S-1031) 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) Refinery fuel gas and natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 19(a)	Emissions of nitrogen oxides (NO_x), 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) shall not exceed 7.29 pounds per clock hour. (Basis: BACT for NO_x, Offsets) NO_x mass emission limit, refinery fuel gas and natural gas firing (BACT for NO_x, Offsets)		Y
Part 19(b)	Emissions of nitrogen oxides (NO_x) at emission points P-60 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O₂, averaged over any 3-clock hour period (Basis: BACT for NO_x) NO_x concentration emission limit, refinery fuel gas and natural gas firing (BACT for NO_x)	Y	
Part 19(c)	Carbon monoxide mass emissions at P-60 shall not exceed 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO) CO mass emission limit, refinery fuel gas and natural gas firing (PSD for CO)	Y	
Part 19(d)	The carbon monoxide emission concentration at P-60 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) CO concentration limit, refinery fuel gas and natural gas firing (BACT for CO)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 19(e)	Ammonia (NH₃) emission concentrations at P-60 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O₂, averaged over any rolling 3-hour period. (Basis: Toxics) <u>NH₃ concentration limit, refinery fuel gas and natural gas firing (Toxics)</u>	Y	
Part 19(f)	Precursor organic compound (POC) mass emissions (as CH₄) at P-60 shall not exceed 2.037 pounds per hour. Demonstration of compliance will be based on source test results. (Basis: BACT) <u>POC mass emission limit, refinery fuel gas and natural gas firing (BACT)</u>	Y	
Part 19(g)	Sulfur dioxide (SO₂) mass emissions at P-60 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 and S-1031 shall not exceed 100 ppm TRS (rolling 24-hour average). (Basis: BACT) Hydrogen sulfide (H₂S) concentrations in refinery fuel gas shall not exceed the H₂S concentration limitation specified in NSPS 40-CFR-60-Subpart J. (Basis: NSPS) <u>SO₂ mass emission limit, TRS concentration limits, refinery fuel gas and natural gas firing (BACT)</u>	Y	
Part 19(h)	The Owner/Operator shall limit the particulate matter (PM₁₀) mass emissions from P-60 to no more than 4.65 pounds per hour averaged over any consecutive 24 hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr averaged over any consecutive 24 hours. Demonstration of compliance will be based on source test results. (Basis: BACT for PM₁₀) <u>PM₁₀ mass emission limit, refinery fuel gas and natural gas firing (BACT for PM₁₀)</u>	Y	
Part 20	The sulfuric acid emissions (SAM) from P-60 combined shall be less than 7 tons in any consecutive four quarters. (Basis: PSD) <u>Sulfuric Acid Emissions (SAM) mass emission limit (PSD)</u>	Y	
Part 22	Total emissions from the Phase I power train (S-1030 and S-1031) shall not exceed the following annual limits (365-day rolling average): (Basis: Cumulative Increase, Offsets, PSD) <u>Mass emission limits (Cumulative Increase, Offsets, PSD)</u>	Y	
Part 22(a)	Phase I (S-1030 and S-1031) NO_x — 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) SO_x — 15.0 (based on TRS measurement) CO — 41.9285 TPY (based on CEM data) PM₁₀ — 6.803 TPY (based on source test results) <u>NO_x, POC, SO_x, CO, and PM₁₀ mass emission limits (Cumulative Increase, Offsets, PSD)</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 22(b)	The PM10 emissions may be adjusted based on source test results for S-1030 and S-1031 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. 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 two boilers (S-38 and S-39). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets) PM10 adjustment allowance (Cumulative Increase, Offsets)	Y	
Part 22(c)	The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Condition 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I. 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 two boilers (S-38 and S-39). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets) PM10 adjustment basis (Cumulative Increase, Offsets)	Y	
Part 22(d)	The owner shall prepare an annual calendar year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The report shall be submitted to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring) Annual emissions reporting (Compliance Monitoring)	Y	
Part 23	To demonstrate compliance with conditions 19(f), 19(g), 19(h), 20 and parts of 22, the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The owner/operator shall use the actual Heat Input Rates and District approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows: (a) For each calendar day, POC, PM10, SAM and SO2 emissions shall be summarized for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] (b) On a daily basis, the 365-day rolling average cumulative total	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>POC, PM10, SAM and SO2 mass emissions, for the power train: Gas Turbine (S-1030)/HRSG (S-1031).(Basis: Offsets, PSD, Cumulative Increase) Daily emission calculations (Offsets, PSD, Cumulative Increase)</u>		
Part 24	<u>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) Source test requirements (Offsets, PSD, Cumulative Increase)</u>	Y	
Part 25	<u>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) Reporting requirements (2-6-502)</u>	Y	
Part 26	<u>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) Recordkeeping requirements (2-6-501)</u>	Y	
Part 27	<u>The owner/operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis:</u>	N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Regulation 2-1-403)		
Part 28	The stack height of emission point P-60 shall be at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP) Stack height requirement (PSD, TRMP)	Y	
Part 29	The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501) Stack sampling ports and platforms requirement (1-501)	Y	
Part 31	The startup period for the Gas Turbine/HRSG shall last for no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics] Startup period limits (Cumulative Increase, Toxics)	Y	
Part 34	The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7) Emission monitoring compliance with 40 CFR Part 75 (2-7)	Y	
Part 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 and S-1031). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO₂, BACT) Refinery fuel gas H₂S and TRS CEM requirements for S-1030 and S-1031 (Refinery fuel gas and natural gas monitoring for SO₂, BACT)	Y	
Part 36	The owner shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H₂S content of the refinery fuel gas. On a quarterly basis, the owner shall report: (a) the daily fuel consumption, (b) hourly H₂S content (as averaged over 3 consecutive hours) of the refinery fuel gas, (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours), (d) quarterly daily averaged H₂S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged reduced sulfur content using the last four quarters. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the quarter. (Basis: BACT, Offsets, Cumulative Increase) Fuel gas TRS and H₂S content recordkeeping and reporting (BACT, Offsets, Cumulative Increase)	Y	
Part 37	The two sources (S-1030 and S-1031) 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) Fuel flow monitor requirements for S-1030 and S-1031	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>(BACT, Offsets, Cumulative Increase, Monitoring)</u>		
Part 38	The owner shall install, calibrate, maintain and operate a District approved continuous emission monitor and recorder for NO_x, CO and O₂. (Basis: BACT, Offsets, Cumulative Increase) NO_x, CO, O₂ CEM requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 39	The owner shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT] POC and PM10 quarterly source test (BACT)	Y	
Part 40	The owner shall conduct a quarterly source test to demonstrate compliance with condition 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO₂, SO₃, SAM and ammonium sulfates. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. (Basis: Cumulative Increase) Sulfuric Acid Mist (SAM) source test (Cumulative Increase)	Y	
Part 41	All hydrocarbon control valves installed as part of the Cogeneration Project in Phase I shall be equipped with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets) Hydrocarbon control valves requirement. (Basis: Cumulative Increase Offsets)	Y	
Part 43	All connectors installed in the piping systems as a result of Phase I of the Cogeneration project shall be equipped with graphite based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase) Connectors requirements. (Basis: RACT, offsets, Cumulative Increase)	Y	
Part 44	All new hydrocarbon centrifugal compressors installed as part of Phase I 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) Hydrocarbon centrifugal compressors requirement. (Basis: RACT, Offsets, Cumulative Increase)	Y	
Part 46	The Cogeneration project consisting of S-1030 and S-1031 shall include the	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	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]		
<u>BAAQMD Condition 24261</u>			
<u>Part 1</u>	<u>Alternate Monitoring Plans for NOx (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD · Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)</u>		
<u>6-1-303.1</u>	<u>Ringelmann No. 2 Limitation</u>	Y <u>N</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	Y <u>N</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	Y <u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	Y <u>N</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-303.1</u>	<u>Ringelmann No. 2 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 · Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 · Rule 8	Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (07/25/2007)		
9-8-110.5	Exemptions: Emergency Standby Engines	N	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-330.3	Emergency Standby Engines, Hours of Operation	N	<u>1/1/2012</u>
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Hours of operation (total)	N	
9-8-530.2	Hours of operation (emergency)	N	
9-8-530.3	Nature of emergency condition	N	
<u>CCR, Title 17, Section 93115</u>	<u>ATCM for Stationary Compression Ignition Engines</u>		
<u>93115.5</u>	<u>Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp</u>	<u>N</u>	
<u>93115.5(b)</u>	<u>Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines</u>	<u>N</u>	
<u>93115.5(b)(1)</u>	<u>Must use CARB Diesel Fuel</u>	<u>N</u>	
<u>93115.6</u>	<u>ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
<u>93115.6(b)</u>	<u>In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
<u>93115.6(b)(3)</u>	<u>Emission and operation standards</u>	<u>N</u>	
<u>93115.6(b)(3)(A)</u>	<u>Diesel PM Standard and Hours of Operation Limitations</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(1)</u>	<u>General Requirements</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(1)(b)</u>	<u>Operating for maintenance and testing limited to 20 hrs/year when PM emitted at a rate \geq 0.40 g/bhp-hr, except as provided in 93115.6(b)(3)(A)(2), excluding operating for emergency use and emissions testing</u>	<u>N</u>	
<u>93115.10</u>	<u>ATCM for Stationary CI Engines – Recordkeeping, Reporting, and</u>	<u>N</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Monitoring Requirements		
93115.10(e)	Monitoring Equipment	N	
93115.10(e)(1)	Install non-resettable hour meter with minimum display of 9,999 hours	N	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
CARB ATCM	Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations,	N	
BAAQMD Condition 2282024375			
Part 1	Operating hour limit Reliability-related testing limit (BAAQMD Regulation 2-5, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a))	Y	
Part 2	Allowable periods of operationEmergency standby engine operations (BAAQMD Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a)Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3))	Y	
Part 3	Non-resettable totalizing meter requirementEmergency standby engine non-resettable totalizing meter requirements (BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1)Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1))	Y	
Part 4	RecordkeepingEmergency standby engine recordkeeping (BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), or, Regulation 2-6-501)	Y	
Part 5	School Proximity RequirementRequirements for emergency standby engine located at or near school (Stationary Diesel Engine ATCM section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1) or (e)(2)(B)(2))	N	

IV. Source Specific Applicable Requirements

Table IV – A24
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD · Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-107</u>	<u>Combination of Emissions</u>	<u>Y</u>	
<u>1-520</u>	<u>Continuous Emission Monitoring</u>	<u>Y</u>	
<u>1-520.8</u>	<u>Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)</u>	<u>Y</u>	
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-522.1</u>	<u>Approval of Plans and Specifications</u>	<u>Y</u>	
<u>1-522.2</u>	<u>Scheduling Requirements</u>	<u>Y</u>	
<u>1-522.3</u>	<u>CEM Performance Testing</u>	<u>Y</u>	
<u>1-522.4</u>	<u>Reporting of Inoperative CEMS</u>	<u>Y</u>	
<u>1-522.5</u>	<u>CEM Calibration Requirements</u>	<u>Y</u>	
<u>1-522.6</u>	<u>CEM Accuracy Requirements</u>	<u>Y</u>	
<u>1-522.7</u>	<u>Emission Limit Exceedance Reporting Requirements</u>	<u>N</u>	
<u>1-522.8</u>	<u>Monitoring Data Submittal Requirements</u>	<u>Y</u>	
<u>1-522.9</u>	<u>Recordkeeping Requirements</u>	<u>Y</u>	
<u>1-522.10</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-602</u>	<u>Area and Continuous Emission Monitoring Requirements</u>	<u>N</u>	
<u>SIP: Regulation 1</u>	<u>General Provisions and Definitions (SIP Approved) (06/28/1999)</u>		
<u>1-522</u>	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-522.7</u>	<u>Emission Limit Exceedance Reporting Requirements</u>	<u>Y</u>	
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements and Visible Emissions (12/5/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>YN</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>YN</u>	
<u>6-1-310.3</u>	<u>Heat Transfer Operation</u>	<u>YN</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-310.3</u>	<u>Heat Transfer Operation</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
<u>BAAQMD</u>	<u>Standards of Performance for New Stationary Sources incorporated</u>		

IV. Source Specific Applicable Requirements

Table IV – A24
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Regulation 10</u>	<u>by reference (02/16/2000)</u>		
<u>10-14</u>	<u>Subpart J. Standards of Performance For Petroleum Refineries</u>	<u>Y</u>	
<u>40 CFR Part 60, Subpart J</u>	<u>NSPS Subpart J for Petroleum Refineries (06/24/2008)</u>		
<u>60.100(a)</u>	<u>Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.</u>	<u>Y</u>	
<u>60.100(b)</u>	<u>Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007</u>	<u>Y</u>	
<u>60.104</u>	<u>Standards for Sulfur Oxides</u>	<u>Y</u>	
<u>60.104(a)(1)</u>	<u>Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions</u>	<u>Y</u>	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
<u>60.105(a)</u>	<u>Continuous Monitoring Systems Requirements</u>	<u>Y</u>	
<u>60.105(a)(4)</u>	<u>Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))</u>	<u>Y</u>	
<u>60.105(e)</u>	<u>Determine and report periods of excess emissions.</u>	<u>Y</u>	
<u>60.105(e)(3)(ii)</u>	<u>Excess SO2 emission definitions for 60.7(c)</u>	<u>Y</u>	
<u>60.106(a)</u>	<u>Test Methods and Procedures</u>	<u>Y</u>	
<u>60.106(e)(1)</u>	<u>Methods to determine compliance with the H2S standard in 60.104(a)(1).</u>	<u>Y</u>	
<u>60.107(f)</u>	<u>Semi-annual compliance report</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of 60.107(f) report</u>	<u>Y</u>	
<u>40 CFR Part 60 Appendix B</u>			
<u>Performance Specification 7</u>	<u>H2S Continuous Emission Monitoring Systems (10/17/2000)</u>	<u>Y</u>	
<u>40 CFR Part 60 Appendix F</u>			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	<u>Y</u>	
<u>BAAQMD Condition # 22949</u>			
<u>Part 2</u>	<u>Allowable POC emissions from fugitive components Submit a count of</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – A24
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	installed pumps, compressors, valves, and flanges/connectors every 180 days until completion of the project. [Basis: Cumulative Increase, Toxics]		
<u>Part 3</u>	Daily average TRS and NSPS J 3-hr average H2S fuel gas limits The Owner/Operator shall fire refinery low pressure fuel gas in S-247 and S-248 heaters at a concentration at or below the following: (a) 155 ppmv total reduced sulfur (TRS), averaged over a calendar day and (b) the H2S concentration limitation specified in NSPS 40 CFR 60 Subpart J. [Basis: NSPS, BACT]	Y	
<u>Part 4</u>	Rolling 365-day TRS fuel gas limit The Owner/Operator shall fire refinery low pressure fuel gas in S-247 and S-248 heaters at a concentration at or below 45 ppmv of total reduced sulfur (TRS), averaged over any rolling consecutive 365 day period. (equivalent to 0.00610 lb SO2/MMBtu fuel gas). [Basis: BACT, Cumulative Increase]	Y	
<u>Part 5</u>	H2S and TRS CEMS requirements The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in S-247 and S-248 heaters. [Basis: Refinery fuel gas monitoring for SO2, BACT]	Y	
<u>Part 6</u>	Recordkeeping and quarterly reporting requirements for H2S and TRS To demonstrate compliance with parts 3 and 4, the Owner/Operator shall measure and record the daily average TRS content, 3-hour average H2S content, and 365-day average TRS content of the refinery fuel gas fired in S-247 and S-248 heaters. On a quarterly basis, the Owner/Operator shall report: (a) the daily fuel consumption at S-247 and S-248; (b) daily average H2S content of the fired refinery fuel gas; (c) daily average TRS content; (d) quarterly daily average H2S content; (e) quarterly daily average TRS content; and (f) annual average TRS 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, NSPS]	Y	
<u>Part 7</u>	Fire only refinery fuel gas The Owner/Operator shall fire only refinery fuel gas in the S-247 and S-248 heaters. [Basis: BACT]	Y	
<u>Part 8</u>	Annual mass emission limits for NOx, CO, SO2, PM10, and Total combined combustion emissions from S-247 and S-248 shall not exceed the following annual limits in any calendar year. [Basis: Cumulative Increase, Offsets]	Y	
	Pollutant _____ Annual (tons) NOx _____ 5.00 CO _____ 8.92		

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Process Heaters
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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	SO₂ 1.52 PM₁₀ 1.25 POC 0.65		
<u>Part 8(a)</u>	Basis for determining annual mass emissions The Owner/Operator shall determine annual emissions using fuel consumption, fuel heating value, continuous emission monitor (CEM) data for TRS, NO_x and CO, and the emission factors from the latest source test for PM₁₀, and POC. [Basis: Monitoring]	<u>Y</u>	
<u>Part 8(b)</u>	Annual report for NO_x, CO, SO₂, PM₁₀, and POC emissions The Owner/Operator shall submit an annual report to the Compliance and Enforcement Division and Permit Services Division no later than 45 days following the end of each calendar year. The report shall include the actual daily emissions based on CEM data for NO_x and CO, the actual daily emissions of SO_x based on the CEM for TRS, and the estimated daily emissions of PM₁₀ and POC based on the above emission factors. Also, the report shall include the annual totals of each pollutant to demonstrate compliance with the above limits. The report shall also include the total daily heat input for S-247 and S-248 heaters and the total daily fuel gas consumption at S-247 and S-248. [Basis: Reporting Requirements]	<u>Y</u>	
<u>Part 9</u>	Continuous fuel flow monitoring requirement The Owner/Operator shall equip the S-247 and S-248 heaters each with District approved continuous fuel flow monitors and recorders in order to determine fuel consumption. (This is not a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring]	<u>Y</u>	
<u>Part 10</u>	Startup and shutdown periods Startups and shutdowns of the S-247 and S-248 heaters each shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to furnace dryout/warmup periods, which each shall not exceed 72 consecutive hours. — [Basis: Time allowances for startup and shutdown periods] 10.1 This part does not apply until after the conclusion of the initial startups of S-247 and S-248.	<u>Y</u>	
<u>Part 10.1</u>	Startup and shutdowns apply after initial startups [Basis: Time allowances for startup and shutdown periods]	<u>Y</u>	
<u>Part 11</u>	NO_x concentration (ppm) and mass 3-hr average emission limits Except during periods of startup and shutdown, the Owner/Operator shall maintain combined emissions of nitrogen oxides in the common stack from S-247 and S-248 Furnaces at or below 17 ppmv, dry, corrected to 3% oxygen (0.0200 lb/MM Btu), averaged over any 3 consecutive hours, or 1.14 lbs/hr, averaged over any 3 consecutive hours. [Basis: BACT]	<u>Y</u>	
<u>Part 12</u>	CO concentration (ppm) and mass 8-hr average emission limits Except	<u>Y</u>	

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Table IV – A24
Source-Specific Applicable Requirements
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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	during startup and shutdown, the Owner/Operator shall maintain combined emissions of CO in the common stack from S-247 and S-248 heaters at or below 50 ppmv, dry, corrected to 3% oxygen (0.0357 lb/MM Btu), averaged over 8 hours, or 2.04 lbs/hr, averaged over 8 hours. [Basis: BACT]		
<u>Part 13</u>	Combined PM10 and POC mass emission limits Except during startup and shutdown, the Owner/Operator shall maintain combined mass emissions of PM10 and POC in the common stack from S-247 and S-248 heaters at or below: PM10 - 0.0050 lbs/MMBTU or 0.29 lbs/hr POC - 0.0026 lbs/MMBTU or 0.15 lbs/hr [Basis: Monitoring]	Y	
<u>Part 14</u>	NOx, CO, and O2 CEMS requirements For S-247 and S-248, the Owner/Operator shall install, calibrate, maintain, and operate District-approved continuous emission monitors and recorders for NOx, CO and O2 on the common stack. [Basis: CEM Monitoring]	Y	
<u>Part 15</u>	The startup period for this Authority to Construct has been extended up to 180 days until January 12, 2008. No later than 150 days from the startup of the S-247 and S-248, the Owner/Operator shall submit to the District all approved source tests on the common stack to determine initial compliance with the limits in parts 11 and 12 for NOx and CO, the limits in part 13 for PM10 and POC, and the limit in part 4 for SO2. The Owner/Operator shall conduct the source test in accordance with part 17. The Owner/Operator shall submit the source test results to the District staff no later than 60 days after the source test. [Basis: Compliance determination via source tests]	Y	
<u>Part 16</u>	The Owner/Operator shall maintain the heat input for S-247 at or below the following limits: (1) 192,282 million BTUs (HHV) in any 365 consecutive day period and (2) 21.95 million BTUs (HHV) in any one hour period. The Owner/Operator shall maintain the heat input for S-248 at or below the following limits: (1) 307,476 million BTUs (HHV) in any 365 consecutive day period and (2) 35.10 million BTUs (HHV) in any one hour period. Annual and hourly firing rate limits [Basis: Cumulative Increase]	Y	
<u>Part 17</u>	Source test and CEMS testing procedures and approval requirements 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 emissions 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 testing. [Basis: Source test compliance]	Y	

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Process Heaters
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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>verification and accuracy]</u>		
<u>Part 18</u>	<u>5-year mass PM10 and POC source test requirements The Owner/Operator shall conduct a source test every five years to demonstrate subsequent compliance with the POC and PM10 limits specified in part 13. The Owner/Operator shall conduct the source test in accordance with part 17. The Owner/Operator shall submit the source test results to the District staff no later than 60 days after the source test. [Basis: Periodic Monitoring, Title V Compliance Verification]</u>	<u>Y</u>	
<u>Part 19</u>	<u>ULSD allowed operation limited to when diesel storage tank deliveries < 9,125,000 BBL/yr The owner/operator shall operate the ULSD Unit only when the Diesel product delivered to the Diesel storage tanks does not exceed 9,125,000 Barrels in a calendar year. [Basis: Cumulative Increase]</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - A25
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engine
S-251 (DG-5301)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD · Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements (12/5/2007)</u>		
<u>6-1-303.1</u>	<u>Ringelmann No. 2 Limitation</u>	<u>YN</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>NY</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>NY</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and -Appraisal of Visible Emissions</u>	<u>NY</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-303.1</u>	<u>Ringelmann No. 2 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and -Appraisal of Visible Emissions</u>	<u>Y</u>	
<u>BAAQMD · Regulation 9 · Rule 1</u>	<u>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)</u>		
<u>9-1-304</u>	<u>Fuel Burning (Liquid and Solid Fuels)</u>	<u>Y</u>	
<u>BAAQMD · Regulation 9 · Rule 8</u>	<u>Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (07/25/2007)</u>		
<u>9-8-110.5</u>	<u>Exemptions: Emergency Standby Engines</u>	<u>N</u>	
<u>9-8-330.1</u>	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
<u>9-8-330.2</u>	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	
<u>9-8-330.3</u>	<u>Emergency Standby Engines, Hours of Operation</u>	<u>N</u>	<u>1/1/2012</u>
<u>9-8-530</u>	<u>Emergency Standby Engines, Monitoring and Recordkeeping</u>	<u>N</u>	
<u>9-8-530.1</u>	<u>Hours of operation (total)</u>	<u>N</u>	
<u>9-8-530.2</u>	<u>Hours of operation (emergency)</u>	<u>N</u>	
<u>9-8-530.3</u>	<u>Nature of emergency condition</u>	<u>N</u>	
<u>CCR, Title 17, Section 93115</u>	<u>ATCM for Stationary Compression Ignition Engines</u>		
<u>93115.5</u>	<u>Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (></u>	<u>N</u>	

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S-251 (DG-5301)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>bhp)</u>		
<u>93115.5(b)</u>	<u>Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines</u>	<u>N</u>	
<u>93115.5(b)(1)</u>	<u>Must use CARB Diesel Fuel</u>	<u>N</u>	
<u>93115.6</u>	<u>ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
<u>93115.6(b)</u>	<u>In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards</u>	<u>N</u>	
<u>93115.6(b)(3)</u>	<u>Emission and operation standards</u>	<u>N</u>	
<u>93115.6(b)(3)(A)</u>	<u>Diesel PM Standard and Hours of Operation Limitations</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(1)</u>	<u>General Requirements</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(1)(b)</u>	<u>Operating for maintenance and testing limited to 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr, except as provided in 93115.6(b)(3)(A)(2), excluding operating for emergency use and emissions testing</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(2)</u>	<u>Operation for maintenance and testing allowed to be > 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr</u>	<u>N</u>	
<u>93115.6(b)(3)(A)(2)(b)</u>	<u>Operation for maintenance and testing allowed to be 50 hrs/year when PM emitted at a rate < 0.15 g/bhp-hr</u>	<u>N</u>	
<u>93115.10</u>	<u>ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements</u>	<u>N</u>	
<u>93115.10(e)</u>	<u>Monitoring Equipment</u>	<u>N</u>	
<u>93115.10(e)(1)</u>	<u>Install non-resettable hour meter with minimum display of 9,999 hours</u>	<u>N</u>	
<u>93115.10(g)</u>	<u>Reporting Requirements for Emergency Standby Engines</u>	<u>N</u>	
<u>93115.15</u>	<u>Severability</u>	<u>N</u>	
<u>40 CFR Part 60 Subpart III</u>	<u>Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/ 2006)</u>		
<u>60.4200(a)(2)(i)</u>	<u>Applicability: Owner/operators of stationary compression ignition (CI) internal combustion engines (ICE) constructed > July 11, 2005 and manufactured > April 1, 2006 that are not fire pump engines</u>	<u>Y</u>	
<u>60.4202</u>	<u>Emission standards for emergency engines for CI ICE Manufacturers (Incorporated by Reference – 60.4205(b))</u>	<u>Y</u>	
<u>60.4202(a)</u>	<u>Emission standards for 2007 and later model year non-fire pump CI ICE < 3000 HP and < 10 l displacement</u>	<u>Y</u>	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
60.4202(a)(2)	<u>For ICE > 50 HP and model year > 2007, comply with certification standards for new nonroad CI engines in 40 CFR Part 89.112 and 40 CFR Part 89.113</u>	<u>Y</u>	
60.4205	<u>Emission standards for emergency engines</u>	<u>Y</u>	
60.4205(b)	<u>2007 model year and later non-fire pump emergency CI ICE with displacement < 30 l must comply with 60.4202 emission standards</u>	<u>Y</u>	
60.4206	<u>Meet emission standards for the entire life of the engine</u>		
60.4207	<u>Fuel requirements</u>	<u>Y</u>	
60.4207(a)	<u>Use diesel fuel that meets the requirements of 40 CFR Part 80.510(a)</u>	<u>Y</u>	
60.4207(b)	<u>Use diesel fuel that meet the requirements of 40 CFR Part 80.510(b) for nonroad diesel fuel</u>	<u>Y</u>	<u>10/1/2010</u>
60.4207(c)	<u>Owner/operators of pre-2001 stationary CI ICE may petition for approval to use remaining non-compliance fuel</u>	<u>Y</u>	
60.4209	<u>Monitoring requirements</u>	<u>Y</u>	
60.4209(a)	<u>Install a non-resettable hour meter prior to engine startup</u>	<u>Y</u>	
60.4211	<u>Compliance requirements</u>	<u>Y</u>	
60.4211(a)	<u>Comply with emission standards, operate and maintain CI ICE per manufacturer's written instructions and only change setting as permitted by manufacturer.</u>	<u>Y</u>	
60.4211(c)	<u>Comply with the emissions standard specified by 60.4205(b) by purchasing an engine certified to the emission standards for the same model and maximum engine power</u>	<u>Y</u>	
60.4211(e)	<u>Operations of emergency ICE may be operated for maintenance and readiness checks limited to 100 hrs/year with no limit on operation for emergency purposes.</u>	<u>Y</u>	
60.4214	<u>Notification, reporting, and recordkeeping requirements</u>	<u>Y</u>	
60.4214(b)	<u>Initial notification is not requirement for emergency stationary ICE. If the emergency ICE does not meet the non-emergency emission standards for the applicable model year in Table 5, maintain records of emergency and non-emergency service as recorded by the non-resettable hour meter. Record time and reason for operation. (Records are not required because the 2008 model year is not listed in Table 5)</u>	<u>Y</u>	
60.4218	<u>Comply with General Provisions as shown in Table 8</u>	<u>Y</u>	
<u>40 CFR Part 63 Subpart ZZZZ</u>	<u>NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/10/2010)</u>		
63.6585	<u>Applicability</u>	<u>Y</u>	
63.6585(a)	<u>Applicable to stationary RICE; and</u>	<u>Y</u>	
63.6585(b)	<u>Applicable to major source of HAPs</u>	<u>Y</u>	
63.6590(a)	<u>Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions</u>	<u>Y</u>	
63.6690(a)(2)	<u>A New Stationary RICE is:</u>	<u>Y</u>	
63.6690(a)(2)(ii)	<u>Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006</u>	<u>Y</u>	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
63.6590(c)	An emergency stationary RICE with a rating < 500 bhp must meet the requirements of 40 CFR 60, Subpart IIII for compression ignition engines	Y	
40 CFR Part 80 Subpart I	Motor Vehicle, Nonroad, Locomotive, and marine Diesel Fuel General Information [Incorporated by Reference – 40 CFR Part 60.4207]		
80.510(a)(1)	Sulfur content of diesel fuel must not exceed 500 ppm, maximum	Y	
80.510(a)(2)	Cetane index or aromatic content must not exceed:	Y	
80.510(a)(2)(i)	A minimum cetane index of 40; or	Y	
80.510(a)(2)(ii)	A maximum aromatic content of 35%, volume	Y	
80.510(b)(1)	Sulfur content of diesel fuel must not exceed 15 ppm, maximum	Y	6/1/2010
80.510(a)(2)	Cetane index or aromatic content must not exceed:	Y	
80.510(a)(2)(i)	A minimum cetane index of 40; or	Y	
80.510(a)(2)(ii)	A maximum aromatic content of 35%, volume	Y	
40 CFR Part 89 Subpart B	Emission Standards and Certification Procedures for New and In-Use Nonroad Compression-Ignition Engines [Incorporated by Reference – 60.4202(a)(2)]		
89.112(a)	Exhaust emissions for engines rated 225<kW<450 must meet Tier 3 emission standards: 4.0 g/kW-hr NMHC+NOx, 3.5 g/kW-hr CO, and 0.20 g/kW-hr PM	Y	
89.113(c)(3)	Constant-speed engines are exempt from the smoke (opacity) emission standards	Y	
BAAQMD Condition 2285024309			
Part 1	Reliability-related testing limit ("Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b))	Y	
Part 2	Emergency standby engine operations (BAAQMD Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b))	Y	
Part 3	Emergency standby engine non-resettable totalizing meter requirements (BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1))	Y	
Part 4	Emergency standby engine recordkeeping (BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g))	Y	
Part 5	Requirements for emergency standby engine located at or near school (Stationary Diesel Engine ATCM section 93115, title 17, CA Code of	Y	

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S-251 (DG-5301)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>Regulations, subsection (e)(2)(A)(1) or (e)(2)(B)(2))</u>		

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Table IV – A26
Source-Specific Applicable Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (05/02/2001)</u>		
1-520	<u>Continuous Emission Monitoring</u>	Y	
1-520.8	<u>Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)</u>	Y	
1-522	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	N	
1-522.1	<u>Approval of Plans and Specifications</u>	Y	
1-522.2	<u>Scheduling Requirements</u>	Y	
1-522.3	<u>CEM Performance Testing</u>	Y	
1-522.4	<u>Reporting of Inoperative CEMS</u>	Y	
1-522.5	<u>CEM Calibration Requirements</u>	Y	
1-522.6	<u>CEM Accuracy Requirements</u>	Y	
1-522.7	<u>Emission Limit Exceedance Reporting Requirements</u>	N	
1-522.8	<u>Monitoring Data Submittal Requirements</u>	Y	
1-522.9	<u>Recordkeeping Requirements</u>	Y	
1-522.10	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	Y	
1-602	<u>Area and Continuous Emission Monitoring Requirements</u>	N	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (SIP Approved) (10/07/1998)</u>		
1-522	<u>Continuous Emission Monitoring and Recordkeeping Procedures</u>	Y	
1-522.7	<u>Emission Limit Exceedance Reporting Requirements</u>	Y	
<u>BAAQMD Regulation 6, Rule 1</u>	<u>Particulate Matter, General Requirements (12/5/2007)</u>		
6-1-301	<u>Ringelmann No. 1 Limitation</u>	N	
6-1-310	<u>Particulate Weight Limitation</u>	N	
6-1-310.3	<u>Heat Transfer Operation</u>	N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (9/4/1998)</u>		
6-1-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-1-310	<u>Particulate Weight Limitation</u>	Y	
6-1-310.3	<u>Heat Transfer Operation</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
<u>BAAQMD</u>			

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Hydrogen Reformer Furnace
S-1061 (F-5501)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Condition 20820</u>			
<u>Part 3</u>	<u>Fuel gas TRS limit of 100 ppmvd, calendar-day average and H2S limit as specified in NSPS 40 CFR Part 60, Subpart Ja (NSPS Subpart Ja, BACT)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Fuel gas TRS limit of 45 ppmvd, 365-day average (BACT)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Fuel gas H2S and TRS CEMS requirements (Refinery fuel gas monitoring for SO2, BACT)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Fuel gas H2S and TRS recordkeeping and quarterly reporting (BACT, Offsets, Cumulative Increase)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Fire only refinery fuel gas and/or natural gas (BACT)</u>	<u>Y</u>	
<u>Part 8</u>	<u>Annual emission limits (Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 8a</u>	<u>___ Demonstrate compliance with CEMS, source test data, and fuel consumption (Monitoring)</u>	<u>Y</u>	
<u>Part 8b</u>	<u>___ Annual emissions report (Reporting Requirements)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Fuel flow monitoring requirements (Monitoring)</u>	<u>Y</u>	
<u>Part 10</u>	<u>Startup and shutdown periods (Time allowances for startup and shutdown periods)</u>	<u>Y</u>	
<u>Part 11</u>	<u>NOx emissions limit (BACT)</u>	<u>Y</u>	
<u>Part 12</u>	<u>CO, PM10, and POC emissions limit</u>	<u>Y</u>	
<u>Part 13</u>	<u>Demonstrate compliance with emissions limits using CEMS for NOx and CO, and source test data and fuel consumption for PM10 and POC (BACT)</u>	<u>Y</u>	
<u>Part 14</u>	<u>Ammonia slip emissions limit</u>	<u>Y</u>	
<u>Part 15</u>	<u>Initial source test to demonstrate compliance with ammonia slip limit (Toxics, Source Tests)</u>	<u>Y</u>	
<u>Part 16</u>	<u>NOx, CO, O2, fuel gas TRS and H2S CEM requirements (CEM Monitoring)</u>	<u>Y</u>	
<u>Part 17</u>	<u>Initial source test to demonstrate compliance with NOx, CO, POC, and PM10 limits (Compliance determination via source tests)</u>	<u>Y</u>	
<u>Part 18</u>	<u>Firing rate limits, annual average and maximum hourly (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 19</u>	<u>Annual source tests to demonstrate compliance with POC and PM10 limits (Periodic Monitoring)</u>	<u>Y</u>	
<u>Part 20</u>	<u>Source test procedures (Source test compliance verification and accuracy)</u>	<u>Y</u>	
<u>Part 74</u>	<u>Sulfuric acid mist (SAM) emission limit (PSD)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – A26
Source-Specific Applicable Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Part 75</u>	<u>Initial SAM source test requirement (Compliance demonstration, PSD avoidance)</u>	<u>Y</u>	
<u>Part 76</u>	<u>Shutdown S-21, S-22 (Offsets)</u>	<u>Y</u>	

Table IV - B1
Source-Specific Applicable Requirements
Coke Storage
S-8 (TK-1902 A/B)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD · Regulation 6 Rule 1	<u>Particulate Matter, General Requirements, and Visible Emissions (12/19/1990/12/5/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-1-311</u>	<u>General Operations (Process Weight Rate Limitation)</u>	<u>Y</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-311</u>	<u>General Operations (Process Weight Rate Limitation)</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
<u>Part 2c</u>	<u>The Owner/Operator shall abate emissions from S-8 coke storage tanks by</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - B1
Source-Specific Applicable Requirements
Coke Storage
S-8 (TK-1902 A/B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	A-8 and/or A-10 baghouses at all times. (Basis: Cumulative Increase) S-8 Coke Storage abatement requirements (Cumulative Increase)		
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. 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] S-1, S-2, S-8, S-11, S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	
Part 7	The Owner/Operator shall perform an annual source test on Sources S-8 and S-176 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-176 only, this source test is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-310] S-8 Coke Storage and S-176 Brine Saturator annual grain loading source test (BAAQMD 6-1-310/SIP 6-310)	Y	
Part 9	The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed 4.10P^{0.67} lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-311] S-5 FCCU, S-6 Coker, and S-8 Coke Storage annual PM mass emissions source test (BAAQMD 6-1-311/SIP 6-311)	Y	
<u>BAAQMD Condition 20820</u>			

IV. Source Specific Applicable Requirements

Table IV - B1
Source-Specific Applicable Requirements
Coke Storage
S-8 (TK-1902 A/B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 48	Coke silo throughput limit (Cumulative increase)	Y	
Part 49	Daily material throughput records (Recordkeeping)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 2	S-8 Coke Storage abatement requirements (Cumulative Increase)	Y	
Part 3	S-1, S-2, S-8, S-11, and S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	
Part 7	S-8 Coke Storage and S-176 Brine Saturator annual grain loading source test (BAAQMD 6-1-310/SIP 6-310)	Y	
Part 9	Annual PM mass emissions source test (BAAQMD 6-1-311/SIP 6-311)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements, and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y	
6-1-310	Particulate Weight Limitation	Y	
6-1-311	General Operations (Process Weight Rate Limitation	Y	
6-1-401	Appearance of Emissions	Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/2008)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Condition # 9897			
Part 1	Annual activated carbon throughput limit (Cumulative Increase)The maximum receipt of the activated carbon at the Activated Carbon Bin TK-2061 (S-11) shall not exceed 292 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 2	Monthly activated carbon receipt recordkeeping (Cumulative Increase)To demonstrate compliance with Condition #1, the monthly receipt of the activated carbon, totaled on a yearly basis, at S-11 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 3	S-1, S-2, S-8, S-11, S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-1-301]	Y	4/01/04
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
			<u>on 20820, Part 21.a triggers</u>
<u>Part 3</u>	<u>S-1, S-2, S-8, S-11 and S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
<u>6-1-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>YN</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>NY</u>	
<u>6-1-311</u>	<u>General Operations (Process Weight Rate Limitation</u>	<u>NY</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>NY</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-311</u>	<u>General Operations (Process Weight Rate Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
BAAQMD			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition #			
639			
Part 1	<u>Visible emissions abatement requirement (1-301)</u> The Owner/Operator shall abate the visible emissions from the lime slurry tanks. [Basis: <u>BAAQMD Regulation 1-301</u>]	Y	
Part 2	<u>Annual visible emissions monitoring requirement (BAAQMD 6-1-301/SIP 6-301, BAAQMD 6-1-310/SIP 6-310 and BAAQMD 6-1-311/SIP 6-311)</u> In order to demonstrate compliance with BAAQMD Regulations 6-301, 6-310 and 6-311, the Owner/Operator shall monitor and record the visible emissions from S-174 and S-175 Lime Slurry Tanks on an annual basis. The visible emissions test shall be conducted during the entire lime offloading operation and the highest visible emissions during the period shall be recorded. If any visible emission exceeds Ringelmann No. 1 for a period greater than 3 minutes in an hour, the Owner/Operator shall take corrective action to comply with Part 1 of this condition. (Basis: <u>Regulation 6-1-301, 6-1-310 and 6-1-311</u>)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (<u>12/19/1990</u>12/5/2007)		
<u>6-1-301</u>	Ringelmann No. 1 Limitation	Y N	
<u>6-1-310</u>	Particulate Weight Limitation	Y N	
<u>6-1-311</u>	General Operations (Process Weight Rate Limitation)	Y N	
<u>6-1-401</u>	Appearance of Emissions	Y N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and</u>	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Appraisal of Visible Emission		
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Condition # 3253			
Part 1	Install PM control device if dry salt is added to TK-2325 (Cumulative Increase) If dry salt is added to tank No. 2325 (S-176) a particulate control device shall be added to control any emissions from this source. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-1-301] S-1, S-2, S-8, S-11, S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	4/01/04
Part 7	The Owner/Operator shall perform an annual source test on Sources S-8 and S-176 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 45 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-176 only, this source test is only required when dry salt is	Y	4/01/04

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-1-310] S-8 Coke Storage and S-176 Brine Saturator annual grain loading source test (BAAQMD 6-1-310/SIP 6-301)		
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition on 20820, Part 21.a triggers</u>
<u>Part 3</u>	<u>S-1, S-2, S-8, S-11, and S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)</u>	<u>Y</u>	
<u>Part 7</u>	<u>S-8 Coke Storage and S-176 Brine Saturator annual grain loading source test (BAAQMD 6-1-310/SIP 6-301)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Condition # 9296			
Part B1	Ethanol/methanol trucks must use paved roads. (Cumulative Increase) For	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	the S-209 Methanol/Ethanol Unloading Station: The transport trucks shall travel on paved roads at all times inside of the Permit Holder Facility. [Basis: Cumulative Increase]		
Part B2	Ethanol/methanol delivery methods. (Cumulative Increase)For the S-209 Methanol/Ethanol Unloading Station: All deliveries of methanol/ethanol shall be from the transport trucks unless Permit Holder first receives prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]	Y	
Part B4	Ethanol/methanol truck delivery limit. (Cumulative Increase)For the S-209 Methanol/ethanol Unloading Station: The total number of truck deliveries of methanol/ethanol at Permit Holder shall not exceed 2920 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part B5	Ethanol/methanol delivery restricted to TK-1820 (S-210). (Cumulative Increase)The dispensed methanol/ethanol from the transport trucks shall be delivered to the S-210 methanol/ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]	Y	
Part B6	Total fugitive POC emissions from S-209 shall not exceed 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part B9	Recordkeeping ethanol/methanol truck deliveries (Banked POC credits) <u>he</u> total number of truck deliveries of methanol/ethanol shall be recorded weekly in a District approved log and totalized monthly. This record shall be retained for a period of at least 5 years from date of entry. it shall be kept on site and made available to District staff upon request. [Basis Banked POC credits]	Y	
<u>Part F1</u>	<u>Fugitive components</u>	<u>Y</u>	
<u>Part F2</u>	<u>Fugitive POC emission count</u>	<u>Y</u>	

Table IV - B6
Source-Specific Applicable Requirements
ESP Fines Vacuum Conveying System
S-232 (NO TAG)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements, and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
6-1-311	General Operations (Process Weight Rate Limitation	N Y	
6-1-401	Appearance of Emissions	N Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Condition # 12727			
Part 1	Annual throughput limit (Cumulative Increase)The throughput of ESP fines at the Vacuum Conveying System (S-232) shall not exceed 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 3	PM abatement device requirement (Cumulative Increase)The operation of S-232 shall be abated properly by the Vacuum Filter (A-54). [Basis: Cumulative Increase]	Y	
Part 5	Monthly ESP fines throughput recordkeeping(Cumulative Increase)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	

IV. Source Specific Applicable Requirements

Table IV - B7
Source-Specific Applicable Requirements
ESP Fines Storage Bin
S-233 (NO TAG)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/199012/5/2007)		
6- 1 -301	Ringelmann No. 1 Limitation	Y N	
6- 1 -310	Particulate Weight Limitation	N Y	
6- 1 -311	General Operations (Process Weight Rate Limitation	N Y	
6- 1 -401	Appearance of Emissions	N Y	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Condition # 12727			
Part 2	Annual throughput limit (Cumulative Increase)The throughput of ESP fines at the ESP Fines Storage Bin (S-233) shall not exceed 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 4	PM abatement device requirement (Cumulative Increase)The operation of S-233 shall be abated properly by the Bin Filter (A-55). [Basis: Cumulative Increase]	Y	
Part 5	Monthly ESP fines throughput recordkeeping(Cumulative Increase)To demonstrate compliance with Conditions #1 and 2, the monthly throughput records of ESP fines at S-232 and S-233 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		

IV. Source Specific Applicable Requirements

Table IV - B7
Source-Specific Applicable Requirements
ESP Fines Storage Bin
S-233 (NO TAG)
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-1-301] S-1, S-2, S-8, S-11, S-176, and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 3</u>	<u>S-1, S-2, S-8, S-11 and S-176 and S-233 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-114	Exemption, Miscellaneous Plants	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 Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 17835			
Part 1	<u>Daily loading limit (Cumulative Increase)</u> This light ends rail rack (S-1027) shall handle no more than 22,500 barrels per day, as averaged over the quarterly period. [Basis: Cumulative Increase]	Y	
Part 2	<u>Annual loading limit (Cumulative Increase, Toxics, BACT)</u> This light ends rail rack (S-1027) shall handle no more than 8.2125 million barrels of liquefied gases (propanes, butanes, pentanes) in any consecutive four-quarter period. [Basis: Cumulative Increase, Toxics, BACT]	Y	
Part 3	<u>Quarterly recordkeeping requirement (Recordkeeping)</u> The Permit Holder shall maintain quarterly records in a District approved log. These records shall be maintained for a period of at least five years. The logs shall be kept on-site and made available to District staff upon request. [Basis: Recordkeeping]	Y	
Part 4	<u>POC abatement requirements (Contemporaneous Emission Reduction Credits)</u> The owner/operator shall operate the gas collection and emission control system continuously during all loading and unloading of liquefied gases (propanes, butanes, pentanes) at the S-1027 Light Ends Rail Rack facility. [Basis: Contemporaneous emission Reduction Credits]	Y	
Part 5	<u>S-1027 gas collection system requirement. (Contemporaneous Emission Reduction Credits)</u> The owner/operator shall maintain the gas collection system in a leak free condition (completely enclosed). [Basis: Contemporaneous Emission Reduction Credits]	Y	
Part 6	<u>POC emissions routing from Light Ends Rail Rack (Contemporaneous Emission Reduction Credits)</u> Prior to implementation of the VIP, the owner/operator shall route the POC emissions from the S-1027 Light Ends Rail Rack to an existing sphere or vapor recovery system. [Basis: Contemporaneous Emission Reduction Credits]	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 Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	<u>Determination of Compliance</u>	<u>Y</u>	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40 CFR 63.640(e)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 11883			
Part 1	<u>Abatement requirements S-201 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-39) at all times. [Basis: (Cumulative Increase)]</u>	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	<u>Determination of Compliance</u>	<u>Y</u>	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
<u>40 CFR Part 61 Subpart FF</u>	<u>NESHAPS, Benzene Waste Operations (12/04/2003)</u>		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.340(a)	<u>Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries</u>	<u>Y</u>	
61.340(c)	<u>Applicability: Exempt Waste</u>	<u>Y</u>	
61.341	<u>Definitions</u>	<u>Y</u>	
61.345(a)	<u>Standards: Containers</u>	<u>Y</u>	
61.345(a)(2)	<u>Standards: Containers--Waste Transfer</u>	<u>Y</u>	
61.346(a)	<u>Standards: Individual Drain Systems</u>	<u>Y</u>	
61.346(a)(1)	<u>Standards: Individual Drain Systems: install, operate and maintain cover and closed vent system routed to control device [A-38 is CVS; A-57 and/or A-37 on S-131 are control devices]</u>	<u>Y</u>	
61.346(a)(1)(i)	<u>Standards: Individual Drain Systems: Cover requirements</u>	<u>Y</u>	
61.346(a)(1)(i)(A)	<u>Standards: Individual Drain Systems: Cover requirements - No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.</u>	<u>Y</u>	
61.346(a)(1)(i)(B)	<u>Standards: Individual Drain Systems: Cover requirements - All openings must be closed and sealed (gasketed lids and latched) at all times waste is in the drain system except when it is necessary to use the opening for waste sampling or removal or for equipment inspection, maintenance, or repair</u>	<u>Y</u>	
61.346(a)(2)	<u>Standards: Individual Drain Systems: Visually inspect cover seals, access hatches, and other openings quarterly. No cracks or gaps allowed and access hatches and openings must be closed and gasketed</u>	<u>Y</u>	
61.346(a)(3)	<u>Standards: Individual Drain Systems: Except for delay of repair, repairs required not later than 15 calendar days after discovery of defect.</u>	<u>Y</u>	
61.349	<u>Standards: Closed Vent Systems and Control Devices</u>	<u>Y</u>	
61.349(a)	<u>Standards: Closed-Vent Systems and Control Devices: Applicability [A-38 vapor balance system is CVS; A-57 and/or A-37 on S-131 are control devices]</u>	<u>Y</u>	
61.349(a)(1)	<u>Standards: Closed-Vent Systems and Control Devices: Closed vent system requirements [A-38 vapor balance system]</u>	<u>Y</u>	
61.349(a)(1)(i)	<u>Standards: Closed-Vent Systems and Control Devices: No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually. [A-38 vapor balance system]</u>	<u>Y</u>	
61.349(a)(1)(iii)	<u>Standards: Closed-Vent Systems and Control Devices: Gauging/sampling devices are gas-tight [A-38 vapor balance system]</u>	<u>Y</u>	
61.349(a)(2)	<u>Standards: Closed-Vent Systems and Control Devices: Control device requirements</u>	<u>Y</u>	
61.349(a)(2)(i)(A)	<u>Standards: Closed-Vent Systems and Control Devices: Controlled by enclosed combustion device with greater than 95% control efficiency.</u>	<u>Y</u>	
61.349(a)(2)(ii)	<u>Standards: Closed-Vent Systems and Control Devices: Controlled by vapor recovery (carbon adsorption): 95% VOC or 98% benzene control</u>	<u>Y</u>	
61.349(b)	<u>Standards: Closed-Vent Systems and Control Devices: Operated at all times. [A-38 vapor balance system and A-57 and/or A-37 on S-131]</u>	<u>Y</u>	
61.349(c)	<u>Standards: Closed-Vent Systems and Control Devices: Control device performance demonstration</u>	<u>Y</u>	
61.349(c)(1)	<u>Standards: Closed-Vent Systems and Control Devices: Control Device Performance Demonstration—Engineering calculations</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices; Visually inspect for leaks quarterly [A-38 vapor balance system]	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices; Repair leaks: 5 days for first attempt; 15 days for complete repair [A-38 vapor balance system]	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices; Monitor per 61.354(c)	Y	
61.354	Monitoring of Operations	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitoring of Operations; Monitor thermal vapor incinerator temperature	Y	
61.354(d)	Monitoring of Operations; Monitor non-regenerated carbon adsorption system	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	N	
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	
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	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition # 11884			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Abatement requirements S-202 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-38) at all times. [Basis: (Cumulative Increase)]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/199012/5/2007)		
6- 1 -301	Ringelmann No. 1 Limitation	Y N	
6- 1 -310	Particulate Weight Limitation	N Y	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	N	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	Y	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	Y	
<u>6-401</u>	<u>Appearance of Emissions</u>	Y	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition # 23326			

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 Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	The owner/operator of S-27 Powerformer Regeneration System shall limit CO emissions discharged to the atmosphere through emission point P-41 to no more than 22 tons per calendar year. The CO emission limit may be increased based on additional testing, if approved by the APCO. (Basis: Cumulative Increase) CO mass emission limit (Cumulative Increase)	Y	
Part 2	To demonstrate compliance with Part 1, the owner/operator shall calculate CO emissions annually from the S-27 Powerformer Regeneration System waste gas discharged to atmosphere. This calculation shall be based on the P-41 waste gas vent rate and a CO emission factor of 95 lb/MMSCF (1300 ppmv), or an alternate calculation approved by the APCO, within 30 days after the end of each year. These emission calculation 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: Recordkeeping) Annual CO emission calculations and recordkeeping (Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
6-1-401	<u>Appearance of Emissions</u>	N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
SIP · Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-310	<u>Particulate Weight Limitation</u>	Y	
6-401	<u>Appearance of Emissions</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	and Appraisal of Visible Emission		
BAAQMD Condition # 23446			
Part 1	The owner/operator shall abate the Sulfur Storage Pit (S-157) by either the Sulfur Recovery Unit A Train Acid Gas Burner (S-1) and/or the Sulfur Recovery Unit B Train Acid Gas Burner (S-2) at all times, when S-1 and/or S-2 is in operation, except for up to 240 hours per calendar year to perform maintenance on S-157 vapor recovery/sparger system. (Basis: cumulative increase, EPA consent decree) Abatement requirements (Cumulative increase, EPA consent decree)	Y	
Part 2	In order to demonstrate compliance with Part 1, the owner/operator of S-157 shall record the maintenance hours for S-157 vapor recovery/sparger system, summarized on a quarterly basis in a District approved log. These records shall be kept on site and made available for District inspection for at least five years from the date that the record was made. (Basis: Recordkeeping) Maintenance recordkeeping (Recordkeeping)	Y	
BAAQMD Condition 20820			
Part 44	Sulfur storage pit (S-157) and product tank (S-236) throughput limits (Cumulative increase, odors)	Y	
Part 45	Daily material throughput records (Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6	Particulate Matter, General Requirements and Visible Emissions (12/19/1998/12/5/2007)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 1			
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	Y N	
6-1-401	<u>Appearance of Emissions</u>	N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
SIP · Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-310	<u>Particulate Weight Limitation</u>	Y	
6-401	<u>Appearance of Emissions</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	<u>Determination of Compliance</u>	Y	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 12	The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase] S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 12</u>	<u>S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements</u> and <u>Visible Emissions</u> (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	N Y	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 2d	The Owner/Operator shall operate S-160 Seal Oil Sparger only when abated by A-13/A-26 Vapor Recovery Compressor to be returned to the refinery fuel gas system. (Basis: Cumulative Increase) S-160 Seal Oil Sparger abatement requirements (Cumulative Increase)	Y	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 1</u>	<u>S-160 Seal Oil Sparger abatement requirements (Cumulative Increase)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, <u>General Requirements and Visible Emissions</u> (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-310	Particulate Weight Limitation	Y N	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>N</u>	
<u>SIP · Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann No. 1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	<u>Y</u>	
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
BAAQMD Condition # 19466	<u>To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers</u>		
Part 13	The VOC emissions from S-167 and S-168 Seal Oil Spargers shall be vented in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system. [Basis: Cumulative Increase]-S-167 and S-168 abatement requirement. (Cumulative Increase)	Y	
<u>BAAQMD Condition 24198</u>	<u>Supersedes Condition 19466</u>		<u>Upon activation of Condition 20820, Part 21.a triggers</u>
<u>Part 13</u>	<u>S-167 and S-168 abatement requirement. (Cumulative Increase)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements and Visible Emissions (12/19/1990/12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	Y N	
6-1-305	Visible Particles	N Y	
6-1-310	Particle Weight Limitation	N Y	
6-1-311	General Operations (process weight rate limitation)	N Y	
6-1-401	Appearance of Emissions	N Y	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
SIP · Regulation 6	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-305	<u>Visible Particles</u>	Y	
6-310	<u>Particle Weight Limitation</u>	Y	
6-311	<u>General Operations (process weight rate limitation)</u>	Y	
6-401	<u>Appearance of Emissions</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	Y	
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
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 - J26C6
Source-Specific Applicable Requirements
Miscellaneous Equipment: Dock Sump; 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 2	Organic Compounds, Miscellaneous Operations (06/15/1994)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition #18422			
Part 1	Dock sump (S-239) throughput limit. Owner/Operator shall limit the total liquid throughput to no more than 360,000 gallons during any consecutive twelve month period. (Basis: (Cumulative Increase)	Y	
Part 2	Dock sump (S-239) compliance with Regulation 8-2. The Owner/Operator shall comply with all requirements of Regulation 8-2. (Basis: (Regulation 8-2-301)	Y	
Part 3	Dock sump (S-239) recordkeeping. In order to demonstrate compliance with the part 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: (Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 CFR Part 63 Subpart UUU	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (4/20/2006)	Y	
63.1562(f)	This subpart does not apply to:	Y	
63.1562(f)(5)	Regeneration vent used during unit depressuring and purging, since	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	vent is routed to fuel gas system		
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission Limitations for Hydrogen Chloride (HCl) during coke burn-off and catalyst rejuvenation using wet scrubber: Reduce uncontrolled HCl emissions by 97% or to a concentration of 10 ppmvd corrected to 3%O ₂	Y	
63.1567(a)(1)(ii)	Select to meet HCl concentration limit (Table 22, Option 2, Item 1)	Y	
63.1567(a)(2)	Operating limits for daily average pH of water from and daily average liquid-to-gas ratio to wet scrubber during coke burn-off and catalyst rejuvenation: daily average pH of scrubbing liquid not fall below the limit established during performance test; daily average liquid-to-gas ratio not to fall below the limit established during performance test (Table 23 Item 1)	Y	
63.1567(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1567(b)	Initial Compliance Demonstration	Y	
63.1567(b)(1)	Install Continuous Parameter Monitoring System to record pH of water and liquid and gas flow rate to scrubber (Table 24, Item 1)	Y	
63.1567(b)(2)	Performance Test: measure HCl concentration at the outlet of the scrubber (Table 25, Item 1.a.2)	Y	
63.1567(b)(3)	Establish Operating Limit: measure and record pH of scrubbing liquid and gas and liquid flow rate every 15 minutes during the performance test. Determine hourly average. (Table 25, Items 2.a and 2.b)	Y	
63.1567(b)(4)	Demonstrate Initial Compliance with Emission Limitations: use Equations 1, 2, 3, 4, or 5 to determine initial compliance with emission limitations	Y	
63.1567(b)(4)(i)	Demonstrate Initial Compliance with Emission Limitations: correct measured HCl concentration of oxygen content using Equation 1	Y	
63.1567(b)(5)	Demonstrate Initial Compliance with Emission limitations: average emissions of HCL over period of performance test are less than or equal to 10 ppmvd, corrected to 3% O ₂ (Table 26, Item 2)	Y	
63.1567(b)(6)	Demonstrate Initial compliance with Work Practice Standard by submitting operation, Maintenance, and Monitoring Plan	Y	
63.1567(b)(7)	Submit Notice of Initial Compliance Status	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1567(c)	Continuous Compliance Demonstration	Y	
63.1567(c)(1)	Demonstrate Continuous Compliance with Emission Limitation: maintain 10 ppmv HCl concentration (Table 27, Item 2) and collect hourly and daily average pH monitoring data and hourly and daily average liquid-to-gas ratio, and maintain both above the operating limit established during performance test (Table 28, Items 1.a and 1.b)	Y	
63.1567(c)(2)	Demonstrate Continuous Compliance with Work Practice Standard through maintaining records to document conformance with the Operation, Maintenance, and Monitoring Plan	Y	
63.1570	General Compliance Requirements	Y	
63.1570(a)	Operate in compliance with non-opacity standards at all times except during periods of startup, shutdown, and malfunction, as specified in 63.6(f)(1)	Y	
63.1570(c)	Operate and maintain source including pollution control and monitoring equipment in accordance with 63.6(e)(1)(i).	Y	
63.1570(d)	Develop and implement startup, shutdown, and malfunction plan (SSMP) in accordance with 63.6(e)(3)	Y	
63.1570(f)	Report deviations from compliance with this subpart according to the requirements of 63.1575	Y	
63.1570(g)	Deviations that occur during startup, shutdown, or malfunction are not violations if operating in accordance with SSMP	Y	
63.1571	Performance Tests	Y	
63.1571(a)	Conduct Performance Test and submit results no later than 150 days after compliance date	Y	
63.1571(b)	Requirements for Performance Tests	Y	
63.1571(b)(1)	Conduct performance tests in accordance with the requirements of 63.7(e)(1)	Y	
63.1571(b)(2)	Except for opacity and visual emissions observations, conduct three separate test runs of at least an hour for each performance test	Y	
63.1571(b)(4)	Performance tests not conducted during periods of startup, shutdown, or malfunction	Y	
63.1571(b)(5)	Arithmetic average of emission rates	Y	
63.1571(d)	Adjustment for measured values	Y	
63.1571(d)(4)	Adjust process or control device measured values when establishing operating limit (optional)	Y	
63.1571(e)	Changes to Operating limits (optional)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1572	Monitoring installation, operation, and maintenance requirements	Y	
63.1572(c)	Continuous parameter monitoring requirements	Y	
63.1572(c)(1)	Install, operate, and maintain each CPMS in a manner consistent with manufacturer’s specifications or other written procedures that provide adequate assurance that the equipment will monitor adequately.	Y	
63.1572(c)(2)	Complete a minimum of one cycle for each 15-minute period; four cycles of operation for a valid hour of data	Y	
63.1572(c)(3)	Valid hourly data at least 75% of process operating hours	Y	
63.1572(c)(4)	Determine and record hourly and daily average of all recorded readings	Y	
63.1572(c)(5)	Record results of inspection, calibration, and validation check	Y	
63.1572(d)	Data monitoring and collection requirements	Y	
63.1572(d)(1)	Conduct monitoring at all times source is operating except for monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1572(d)(2)	Not use data recorded during monitoring malfunctions, repairs, and QA/QC activities	Y	
63.1573	Monitoring Alternatives	Y	
63.1573(b)	Alternatives for monitoring for pH (Table 41, Item 1) (optional)	Y	
63.1573(c)	Automated data compression system (optional)	Y	
63.1573(d)	Monitoring for alternative parameters (optional)	Y	
63.1573(e)	Alternative Monitoring Requests (optional)	Y	
63.1574	Notification Requirements	Y	
63.1574(a)	Notifications Required by Subpart A	Y	
63.1574(a)(2)	Submit notification of intent to conduct performance test 30 days before scheduled (instead of 60 days)	Y	
63.1574(a)(3)	Notification of Compliance Status	Y	
63.1574(a)(3)(ii)	Submit Notification of Compliance Status for initial compliance demonstration that includes a performance test, no later than 150 days after source compliance date	Y	
63.1574(d)	Information to be Submitted in Notice of Compliance Status (Table 42): identification of affected sources and emission points (Item 1); initial compliance demonstration (Item 2); continuous compliance (Item 3)	Y	
63.1574(f)	Requirement to prepare Operation, Maintenance, and Monitoring Plan	Y	
63.1574(f)(1)	Submit plan to permitting authority for review and approval along with NOCS. Include duty to prepare and implement plan into Part 70 or 71 permit.	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	
63.1575(a)	Required reports: Statement that there were no deviations or report including information in 1575(d) or (e) (Table 43, Item 1)	Y	
63.1575(b)	Specified semiannual report submittal dates	Y	
63.1575(c)	Information required in compliance report	Y	
63.1575(d)	Information required for deviations from emission limitations and work practice standards where CEMS or COMS is not used to comply with emission limitation or work practice standard	Y	
63.1575(f)	Additional information for compliance reports	Y	
63.1575(f)(1)	Requirement to submit performance test reports	Y	
63.1575(g)	Submittal of reports required by other regulations in place of or as part of compliance report if they contain the required information	Y	
63.1575(h)	Reporting requirements for startups, shutdowns, and malfunctions	Y	
63.1576	Recordkeeping	Y	
63.1576(a)	Required Records – General	Y	
63.1576(d)	Records required by Tables 20, 21, 27, and 28 of Subpart UUU	Y	
63.1576(e)	Maintain copy of Operation, Maintenance, and Monitoring Plan	Y	
63.1576(f)	Records of changes that affect emission control system performance	Y	
63.1576(g)	Records in a form suitable and readily available for review	Y	
63.1576(h)	Maintain records for 5 years	Y	
63.1576(i)	Records onsite for two years; may be maintained offsite for remaining 3 years	Y	
63.1577	Parts of Subpart A General Provisions which apply to this Subpart	Y	
BAAQMD Condition 18794 Permit	<u>PERMIT CONDITIONS</u>Superseded by Condition 20820, Parts 55 and 56 upon activation of Condition 20820, Part 21.a triggers		
18794 ,-Part 1	±PFR (S-1004) throughput limit. Total throughput of Naphtha through Catalytic Reformer shall not exceed the following limits: a.12,739 KB/Year (34.9 KB/D annual average) b.39.8 KB/Day (maximum)	Y	
18794 ,-Part 2	Recordkeeping for PFR (S-1004) (Regulations 9-8-530, 1-441) The following monthly records shall be maintained in a District-approved log for at least 5 years for S-1004 and shall be made available for District inspection upon request. [Basis: Regulation 1-441] a.Daily Maximum Naphtha throughput in KB/D b.Daily Average Naphtha throughput in KB/D	Y	
BAAQMD Condition	<u>Supersedes Condition 18794, Parts 1 and 2</u>		<u>Upon</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
20820			activation of Condition 20820, Part 21.a triggers
Part 55	Throughput limit for S-1004 Powerformer Unit (Cumulative increase)	Y	
Part 56	Daily feed throughput records (Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 815 Permit	PERMIT CONDITION Superseded by Condition 20820, Parts 50, 51, and 52 upon activation of Condition 20820, Part 21.a triggers		
815, Part 1	Daily crude throughput limit (Cumulative Increase, toxics, offsets) The Crude Unit throughput shall not exceed 135,000 barrels per day (any single day) of crude feed. [Basis: Cumulative Increase, toxics, offsets]	Y	
815, Part 2	Daily crude throughput recordkeeping and monthly report (Banked POC credits) The Owner/Operator shall maintain a log of daily crude unit throughput. This data shall be available to the District upon request. A report shall be submitted to the District on a monthly basis. [Basis: Banked POC credits]	Y	
BAAQMD Condition 20820	Supersedes Condition 815, Parts 1 and 2		
Part 21	Emission limitations triggered by (Project implementation):	Y	
Part 21.a.i	Processing more than 135,000 barrels of crude in any calendar day at S-1006 Pipestill	Y	
Part 23	VIP marine emission limits triggered when 135,000 BBL/day of crude oil processed at S-1006 or when storage tanks (S-57 through S-62, S-1047, S-1048) exceed combined total throughput of 141.5 kBBL/day (Cumulative Increase, Offsets)	Y	
Part 50	Throughput limits, 180 kbbbl/day maximum and 165 kbbbl per day, annual average (Cumulative increase)	Y	Upon

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 51	Daily crude throughput records at S-9 crude blow down system and S-1006 Pipestill Unit (Cumulative Increase)	Y	activation of Condition 20820, Part 21.a triggers
Part 52	Monthly crude throughput report (Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 10574 Permit	PERMIT CONDITIONS Superseded by Condition 24197 upon startup of S-1061 and S-1062		
10574, Part 12	The Owner/Operator shall limit the Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. (Basis: Cumulative Increase)	Y	
10574, Part 51	Alkylation Unit (S-1007) throughput limit. (BACT, Cumulative Increase) The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels per day (Basis: BACT, Cumulative Increase)	Y	
10574, Part 52	The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emissions from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)	Y	
BAAQMD Condition 18043			
18043, Part 1	Total fugitive POC emissions from the MTBE Phaseout	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: (Cumulative Increase, Toxics)]		
<u>BAAQMD Condition 24197</u>	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 12</u>	<u>Total fugitive POC emissions from all new and modified equipment [Cumulative Increase]</u>	<u>Y</u>	
<u>Part 51</u>	<u>Alkylation Unit (S-1007) throughput limit. (BACT, Cumulative Increase)</u>	<u>Y</u>	
<u>Part 52</u>	<u>Final fugitive component count. (Cumulative Increase, Offsets)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD · Regulation 8 Rule 2</u>	<u>Organic Compounds, Miscellaneous Operations (07/20/2005)</u>		
<u>8-2-301</u>	<u>Miscellaneous Operations</u>	<u>Y</u>	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
<u>BAAQMD Condition 15512 Permit</u>	<u>PERMIT CONDITIONS</u>		
<u>15512, Part 1</u>	<u>Deaerator vent abatement and source testing requirements (RACTRegulation 8-2-301)</u> The Owner/Operator shall route the precursor organic compounds from the deaerator vents associated with the operation of S-1010 Hydrogen Plant downstream to the S-40 and/or S-41 boilers at all times in which the source is in operation. [Basis: RACT]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 20820</u>			
<u>Part 57</u>	<u>Combined throughput limit for S-1010, Hydrogen Plant (A or B train) and S-1062, Hydrogen Unit with Pressure Swing Adsorption (PSA (Cumulative increase))</u>	<u>Y</u>	
<u>Part 58</u>	<u>Daily throughput records (recordkeeping)</u>	<u>Y</u>	

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

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

**Table IV – D6
 Source-Specific Applicable Requirements
 S-1014 CAT LIGHT ENDS (NAPHTHA SPLITTER, T-805)**

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

IV. Source Specific Applicable Requirements

**Table IV – D6
 Source-Specific Applicable Requirements
 S-1014 CAT LIGHT ENDS (NAPHTHA SPLITTER, T-805)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 9296</u>			
Part F1	<u>Fugitive components</u>	<u>Y</u>	
Part F2	<u>Fugitive POC emission count</u>	<u>Y</u>	
<u>BAAQMD Condition 18043 Permit</u>	<u>PERMIT CONDITIONS</u>		
18043 , Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: Cumulative Increase, Toxics]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition 9296</u>			
Part F1	<u>Fugitive components</u>	<u>Y</u>	
Part F2	<u>Fugitive POC emission count</u>	<u>Y</u>	
<u>BAAQMD Condition 9296 Permit</u>	<u>PERMIT CONDITIONS</u>		
9296 , Part E1	Throughput limit LCNHF (S-1024). (Cumulative Increase, Toxics)The total throughput of product at this source shall not exceed 24,000 barrels per day, as average over any calendar year. [Basis: Cumulative Increase, Toxics]	Y	
9296 , Part E2	Recordkeeping LCNHF (S-1024) (Recordkeeping)The total daily throughput of product at this source shall be recorded daily in a District approved log. This record shall be retained	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	for a period of at least five years from the date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Recordkeeping]		

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Permit	PERMIT CONDITIONS		
9296, Part A4	S-211 Alkylate Debutanizer (Banking Credits)The MTBE unit shall be completely shutdown except for the MTBE tower used to remove butane from the Alkylate as part of the MTBE Phaseout Project. <Basis: Banking Credits>	Y	
10574, Part 51	Alkylation Unit (S-1007) throughput limit. (BACT, Cumulative Increase)The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels per day (Basis: BACT, Cumulative Increase)	Y	
10574, Part 52	The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emissions from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)	Y	
BAAQMD Condition 18043			
18043, Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012) shall not exceed 0.571 ton in any rolling 12 consecutive month. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from the source exceed 0.571 ton/yr, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. [Basis: (Cumulative Increase, Toxics)]	Y	

IV. Source Specific Applicable Requirements

Table IV – D9
Source-Specific Applicable Requirements
S-1058 VIRGIN LIGHT ENDS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 10574 Permit	PERMIT CONDITIONS <u>Superseded by Condition 24197 upon startup of S-1061 and S-1062</u>		
10574 , Part 12	The Owner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part #9. [Basis: Cumulative Increase]	Y	
BAAQMD Condition 24197	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
Part 12	Total fugitive POC emission limit (Cumulative Increase)		

TABLE IV – D10
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
ULSD UNIT
S-1036 STRIPPER TOWER (T-5401) AND
S-1051, S-1052 REACTORS (R-5401, R-5402)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 20820			
Part 36	<u>S-1036 daily throughput limit (Cumulative increase)</u>	<u>Y</u>	
Part 37	<u>S-1036 submittal of final design throughput documentation for adjustment of Part 36 daily throughput limit</u>	<u>Y</u>	
Part 38	<u>S-1036 daily throughput recordkeeping (Recordkeeping)</u>	<u>Y</u>	
Part 39	<u>S-1051, S-1052 daily throughput limits (Cumulative increase)</u>	<u>Y</u>	
Part 40	<u>S-1051, S-1052 submittal of final design throughput per documentation for adjustment of Part 36 daily throughput limit</u>	<u>Y</u>	
Part 41	<u>S-1051, S-1052 daily throughput recordkeeping (Recordkeeping)</u>	<u>Y</u>	
BAAQMD			

IV. Source Specific Applicable Requirements

TABLE IV – D10
SOURCE-SPECIFIC APPLICABLE REQUIREMENTS
ULSD UNIT
S-1036 STRIPPER TOWER (T-5401) AND
S-1051, S-1052 REACTORS (R-5401, R-5402)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Condition #22949</u>			
<u>Part 2</u>	<u>Allowable POC emissions from fugitive components [Basis: Cumulative Increase, Toxics]</u>	<u>Y</u>	
<u>Part 19</u>	<u>ULSD allowed operation limited to when diesel storage tank deliveries < 9,125,000 BBL/yr [Basis: Cumulative Increase]</u>	<u>Y</u>	
<u>Part 20</u>	<u>S-1036 daily throughput limit [Basis: Cumulative Increase]</u>	<u>Y</u>	
<u>Part 21</u>	<u>S-1051, S-1052 daily throughput limits [Basis: Cumulative Increase]</u>	<u>Y</u>	
<u>Part 22</u>	<u>Daily unit throughput recordkeeping requirements [Basis: Recordkeeping]</u>	<u>Y</u>	
<u>Part 23</u>	<u>Process vessel depressurization abatement requirements [Basis: Cumulative Increase]</u>	<u>Y</u>	

Table IV – D11
Source-Specific Applicable Requirements
BUTAMER UNIT
S-1034, S-1035 TOWERS (T-4801, T-4802) AND
S-1049, S-1050 REACTORS (R-4803A, R-4803B)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Condition 20820</u>			
<u>Part 36</u>	<u>S-1034, S-1035 daily throughput limits (Cumulative increase)</u>	<u>Y</u>	
<u>Part 37</u>	<u>S-1034, S-1035 submittal of final design throughput documentation for adjustment of Part 36 daily throughput limit</u>	<u>Y</u>	
<u>Part 38</u>	<u>S-1034, S-1035 daily throughput recordkeeping (Recordkeeping)</u>	<u>Y</u>	
<u>Part 39</u>	<u>S-1049, S-1050 daily throughput limits (Cumulative increase)</u>	<u>Y</u>	
<u>Part 40</u>	<u>S-1049, S-1050 submittal of final design throughput documentation for adjustment of Part 39 daily throughput limit</u>	<u>Y</u>	
<u>Part 41</u>	<u>S-1049, S-1050 daily throughput recordkeeping (Recordkeeping)</u>	<u>Y</u>	
<u>BAAQMD Condition 24080</u>			
<u>Part 1</u>	<u>Fugitive component count (Compliance monitoring)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Fugitive POC emissions (Cumulative increase, toxics)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – D12
Source-Specific Applicable Requirements
S-1003 Hydrocracker Unit,
Including S-51, S-52 HCU Total Feed Sandfilters (FIL 410A, 410B)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Condition 9296</u>			
<u>Part F1</u>	<u>Fugitive components</u>	<u>Y</u>	
<u>Part F2</u>	<u>Fugitive POC emission count</u>	<u>Y</u>	
<u>BAAQMD Condition 20820</u>			
<u>Part 53</u>	<u>Throughput limit (Cumulative increase)</u>	<u>Y</u>	
<u>Part 54</u>	<u>Daily material throughput records (Recordkeeping)</u>	<u>Y</u>	

Table IV – D13
Source-Specific Applicable Requirements
S-1062 HYDROGEN UNIT WITH PSA

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Condition 20820</u>			
<u>Part 1a</u>	<u>Fugitive components – valves (BACT, Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 1b</u>	<u>Fugitive components – flanges/connectors (BACT, Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 1c</u>	<u>Fugitive components – compressors (BACT, Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 1d</u>	<u>Fugitive components – pumps (BACT, Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 1e</u>	<u>Comply with fugitive equipment monitoring and repair program (Compliance Monitoring)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Fugitive NMOCPOC emission limit and component count (Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 57</u>	<u>Combined throughput limit for S-1010, Hydrogen Plant (A or B train) and S-1062, Hydrogen Unit with Pressure Swing Adsorption (PSA) (Cumulative increase)</u>	<u>Y</u>	
<u>Part 58</u>	<u>Daily throughput records (recordkeeping)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – D13
Source-Specific Applicable Requirements
S-1062 HYDROGEN UNIT WITH PSA

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Part 76</u>	<u>Shutdown S-21, S-22 (Offsets)</u>	<u>Y</u>	

Table IV – D14
Source-Specific Applicable Requirements
S-1011 Heavy Cat Naphtha Hydrofiner

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Condition 9296</u>			
<u>Part F1</u>	<u>Fugitive components</u>	<u>Y</u>	
<u>Part F2</u>	<u>Fugitive POC emission count</u>	<u>Y</u>	
<u>BAAQMD Condition 10574</u>	<u>Superseded by Condition 24197 upon startup of S-1061 and S-1062</u>		
<u>Part 12</u>	<u>Total fugitive POC emissions from all new and modified equipment [Cumulative Increase]</u>	<u>Y</u>	
<u>BAAQMD Condition 24197</u>	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 12</u>	<u>Total fugitive POC emissions from all new and modified equipment [Cumulative Increase]</u>	<u>Y</u>	

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

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (6/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Condition #20762			
Part 1	Verify true vapor pressure (8-5-117) Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117)	<u>Y</u>	
Part 2	Comply with Regulation 8-5 when switching different service Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5)	<u>Y</u>	
Part 3	Recordkeeping requirements (8-5-117)	<u>Y</u>	

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	Phase I Vapor Recovery System - Vapor Tightness Test	Y	
8-7-302.1	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	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-In Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.12	Liquid Retainment Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-302.14	Balance Phase II Vapor Recovery System – Back Pressure Test	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-313.1	Total Organic Compound Emissions From Nozzle/Fillpipe Interface, Storage Tank Vent Pipes, and Pressure-Related Fugitives Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-313.2	Total Organic Compound Emissions From Spillage Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-313.3	Total Organic Compound Emissions From Liquid Retain and Spitting Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-315	Pressure Vacuum Valve Requirements, Underground Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
8-7-601	Determination of Equipment in Compliance with Dynamic Backpressure Requirements and Vapor Tight	Y	
8-7-602	Determination of Compliance with Vapor Tightness Standards	Y	
8-7-603	Determination of Phase I Vapor Recovery Efficiency	Y	
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements	Y	
8-7-606	Determination of Applicability	Y	
BAAQMD Condition # 20666			
Part 1	OPW EVR Phase I Vapor Recovery System Requirements (8-7-301.2)	Y	
Part 2	EVR Test Requirements Conduct leak test every 3 years (8-7-301.2)	Y	
BAAQMD Condition # 22323			
Part 1	Annual Gasoline Throughput Limit (basis: cumulative increase)	Y	
BAAQMD Condition # 24297	Authority to Construct Condition		
Part 1	Install, Operate and Maintain VST EVR Phase II Vapor Recovery System	Y	
Part 2	CARB Certified EVR Phase I and Phase II Vapor Recovery System	Y	
Part 3	Recordkeeping	Y	
Part 4	Leak Free and Vapor Tight Components	Y	
Part 5	Start up Notification	Y	
Part 6	Performance Tests	Y	
Part 7	Annual Source Test	Y	
Part 8	Source Test Notification	Y	
Part 9	Coaxial Hose Requirements	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 10</u>	<u>Dispensing Rate Requirements</u>	<u>Y</u>	
<u>Part 11</u>	<u>Vapor Pressure Sensor Location</u>	<u>Y</u>	
<u>Part 12</u>	<u>Veeder-Root Vapor Polisher Control Requirement</u>	<u>Y</u>	
<u>Part 13</u>	<u>Veeder-Root Vapor Polisher Operation Requirement</u>	<u>Y</u>	
<u>Part 14</u>	<u>Veeder-Root Vapor Polisher Outlet Requirement</u>	<u>Y</u>	
<u>Part 15</u>	<u>Veeder-Root Vapor Polisher Access Requirement</u>	<u>Y</u>	
<u>Part 16</u>	<u>CARB Executive Order VR 203</u>	<u>Y</u>	
<u>Part 17</u>	<u>Veeder-Root Vapor Polisher Testing Requirement</u>	<u>Y</u>	
<u>Part 18</u>	<u>Headspace Requirement</u>	<u>Y</u>	
<u>Part 19</u>	<u>Vapor Recovery Piping Requirement</u>	<u>Y</u>	
<u>Part 20</u>	<u>Condensate Traps and Knock Out Pot</u>	<u>Y</u>	
<u>Part 21</u>	<u>Vent Pipe Requirement</u>	<u>Y</u>	
<u>Part 22</u>	<u>Installation and Service by Veeder-Root Vapor Trained Contractors</u>	<u>Y</u>	
<u>BAAQMD Condition # 24298</u>			
<u>Part 1</u>	<u>Install, Operate and Maintain VST EVR Phase II Vapor Recovery System</u>	<u>Y</u>	
<u>Part 2</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>Part 3</u>	<u>Leak Free and Vapor Tight Components</u>	<u>Y</u>	
<u>Part 4</u>	<u>Annual Source Test</u>	<u>Y</u>	
<u>Part 5</u>	<u>Source Test Notification</u>	<u>Y</u>	
<u>Part 6</u>	<u>Coaxial Hose Requirements</u>	<u>Y</u>	
<u>Part 7</u>	<u>Dispensing Rate Requirements</u>	<u>Y</u>	
<u>Part 8</u>	<u>Veeder-Root Vapor Polisher Control Requirement</u>	<u>Y</u>	
<u>Part 9</u>	<u>Veeder-Root Vapor Polisher Operating Requirement</u>	<u>Y</u>	
<u>Part 10</u>	<u>Veeder-Root Vapor Polisher Access Requirement</u>	<u>Y</u>	
<u>Part 11</u>	<u>Veeder-Root Vapor Polisher Testing Requirement</u>	<u>Y</u>	
<u>Part 12</u>	<u>Vent Pipe Requirement</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (07/19/2006)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.2	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.4	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.5	Parametric Monitoring and Recordkeeping Procedures	Y	
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD · Regulation 8 Rule 44 ·	Organic Compounds, California Marine Vessel loading of organic compounds. (12/07/2005)		
8-44-110	Exemption, Small Loading Events	N	
8-44-111	Exemption, Marine Vessel Fueling	Y	
8-44-115	Exemption, Safety/Emergency Operations	N	
8-44-116	Limited Exemption, Equipment Leaks	N	
8-44-301	Limitations on Marine Tank Vessel Loading and Lightering	N	
8-44-302	Limitations on Marine Tank Vessel Ballasting	N	
8-44-303	Limitations on Marine Tank Vessel Venting	N	
8-44-304	Emission Control Requirements	N	
8-44-304.1	Limit emissions to 5.7 grams per cubic meter (2 lbs per 1000 bbls) of organic liquid loaded, or reduce emissions by at least 95%, weight; and	N	
8-44-304.2	Use emission control equipment designed and operated to collect and process all organic compound emissions from loading, ballasting, or venting	N	
8-44-305	Equipment Leaks	N	
8-44-305.2	Maintain all hatches, pressure relief valves, connections, gauging ports and vents, and other equipment such that gaseous and liquid leak limits are not exceeded	N	
8-44-305.3	Inspect tank vessel equipment for leaks prior to loading more than 20% of the cargo	N	
8-44-305.4	Upon discovery, immediately tag vessel liquid or gas leaks, minimize within 4 hours, and repair prior to commencement of next loading operation	N	
8-44-403	Notifications Regarding Safety/Emergency Exemption	N	
8-44-501	Record Keeping – Marine Terminals:	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-501.1	- For each loading event of any organic liquid;	N	
8-44-501.2	- For each ballasting operation conducted at a marine terminal	N	
8-44-501.3	- For each venting operation conducted at a marine terminal	N	
8-44-503	Record Keeping – Exemptions	N	
8-44-503.1	- For Section 8-44-110	N	
8-44-503.2	- For Section 8-44-111	N	
8-44-503.3	- For Section 8-44-115	N	
8-44-504	Burden of Proof	N	
8-44-601	Determination of Emission Factors and Emission Control Equipment Efficiencies	N	
8-44-603	Leak Determinations	N	
8-44-604	Flash Point Determinations	N	
SIP · Regulation 8 Rule 44 ·	Organic Compounds, California Marine Vessel loading of organic compounds. (08/30/1993)		
8-44-110	Exemption, Loading Events	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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date								
8-44-602	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 (04/20/2006)										
63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y									
63.560(a)(2)	MACT does not apply to existing sources with emissions < 10 or 25 tons	Y									
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									
63.560(b)	Applicability and Designation of Affected Source	Y									
63.560(b)(2)	RACT Standards do not Apply to Marine Loading Operations with Throughput Less Than 10 M and 200 M Barrels	Y									
63.565(l)	Emission estimation procedures	Y									
63.567(j)	Recordkeeping and Reporting Requirements	Y									
63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years	Y									
BAAQMD Condition # 1709											
Part 1	Gasoline loading NMHC emission limit (Cumulative Increase)The Permit Holder shall limit the total non-methane hydrocarbon emissions due to gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]	Y									
Part 2	Gasoline loading VOC emission factors (Cumulative Increase)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] <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Uncontrolled</td> <td style="width: 50%;">Controlled Emission Factor</td> </tr> <tr> <td style="text-align: center;">lb voc/1000 gal</td> <td style="text-align: center;">lb voc/1000 gal</td> </tr> <tr> <td>Ship</td> <td style="text-align: center;">1.80</td> </tr> <tr> <td>Barge</td> <td style="text-align: center;">3.40</td> </tr> </table>	Uncontrolled	Controlled Emission Factor	lb voc/1000 gal	lb voc/1000 gal	Ship	1.80	Barge	3.40		
Uncontrolled	Controlled Emission Factor										
lb voc/1000 gal	lb voc/1000 gal										
Ship	1.80										
Barge	3.40										
Part 3	A-29 abatement efficiency requirements The John Zink abatement system, A-29, shall be designed for at least 95%, by weight abatement efficiency or the VOC emissions shall not exceed 2 lb/1,000 bbl loaded (non-methane). [Basis: Cumulative Increase]	Y									
Part 4	Mogas loading recordkeeping (Cumulative Increase)The Permit Holder shall maintain a log of each mogas loading across the dock, listing the date,	Y									

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	vessel loaded, relief valve set pressure, maximum pressure developed, loading interval (time), and amount and type of material loaded. [Basis: Cumulative Increase]		
Part 5	VOC CEM requirement (Cumulative Increase)The Permit Holder shall install a continuous emission monitor and recorder for mass VOC emission at A-29 discharge emission point, unless Permit Holder can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with condition 3. [Basis: Cumulative Increase]	Y	
Part 6	Gasoline loading pressure monitoring (Cumulative Increase)The Permit Holder shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]	Y	
Part 7	Quarterly gasoline loading report (Cumulative Increase)The Permit Holder shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: Cumulative Increase]	Y	
Part 8	Uncontrolled gasoline loading conditions (Cumulative Increase)Any vessel loading that develops a pressure exceeding 80% of the lowest relief valve set pressure shall be considered uncontrolled. The uncontrolled emission factor in condition 2 shall be used to determine the emissions from such loading operations. If Permit Holder can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: Cumulative Increase]	Y	
Part 9	Gas leakage vessel testing (Cumulative Increase)Permit Holder shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers and etc. [Basis: Cumulative Increase]	Y	
Part 10	Calculate emissions for leaks exceeding 5% of total volume based on gas leakage testing (Cumulative Increase)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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers and etc. [Basis: Cumulative Increase]		
Part 11	Emission reductions for excess calculations per Part 10 (Cumulative Increase) If the calculations required by condition 10 result in exceeding condition 1, the Permit Holder shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]	Y	
Part 12	Leak test on relief valves, hatch covers, gauging connections and other potential leak points (RACT, Cumulative Increase) 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 1 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	
Part 16	The Permit Holder shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: Cumulative Increase]	N	
<u>BAAQMD Condition 20820</u>			
Part 23	<u>Emission limits for NOx, SOx, NMOCPOC, PM10, and CO for import/exports when >135 kBBL/day crude processed at S-1006 or 141.5 kBBL/day stored in crude tanks S-57 thru S-62 (B5574), S-1047, and S-1048 (Cumulative Increase, Offsets)</u>	Y	<u>January 1 of the year when Condition 20820, Part 21.a triggers are activated</u>

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 24	Annual emission limit adjustments (Cumulative Increase, Offsets)	<u>Y</u>	
Part 25	Determine compliance with emission limits using specified emission factors (Compliance Verification)	<u>Y</u>	
Part 26	Calendar year reporting (Annual Report)	<u>Y</u>	
Part 27	Daily recordkeeping requirement (Recordkeeping)	<u>Y</u>	
Part 29	Offset requirements (Contemporaneous Emissions Reduction Credits)	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 8	Wastewater Collection and Separation Systems (09/15/2004)		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
SIP · Regulation 8 Rule 8	Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
<u>40 CFR Part 61 Subpart FF</u>	<u>NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for benzene wastewater diverted to S-151</u>		
<u>61.355(e)</u>	<u>Standards: General: Compliance option – Treat to 6 or 6BQ Option</u>	<u>Y</u>	
<u>61.355(e)(2)</u>	<u>Standards: General: Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.</u>	<u>Y</u>	
<u>61.342(e)(2)(i)</u>	<u>Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;</u>	<u>Y</u>	
<u>61.342(e)(2)(ii)</u>	<u>Standards: General: Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k)</u>	<u>Y</u>	
<u>61.355(k)(1)</u>	<u>TBO in waste streams not controlled for air emissions – use 61.355(a) methods</u>	<u>Y</u>	
<u>61.356(b)</u>	<u>Recordkeeping Requirements: Waste Stream records</u>	<u>Y</u>	
<u>61.356(b)(4)</u>	<u>Recordkeeping Requirements: Waste Stream records; records for streams controlled under 61.342(e)</u>	<u>Y</u>	
<u>NESHAPS Title 40 CFR Part 63 Subpart CC</u>	<u>NESHAPS for Petroleum Refineries (06/23/2003)</u>		
<u>63.640(c)(3)</u>	<u>Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)</u>	<u>Y</u>	
BAAQMD	<u>Superseded by Condition 24197 Upon Startup of S-1061 and S-1062</u>		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition # 10574			
Part 1	CFP Pumps 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. e) equipped with a magnetically driven pump.	Y	
Part 4	All hCFP Hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: (BACT)]	Y	
Part 5	Except as required by Condition number 4, all CFP - All other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) teflon packed valves or (5) equivalent. [Basis: (BACT)]	Y	
Part 7	All CFP Flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic based gaskets are not compatible. [Basis: (BACT, Offsets, Cumulative Increase, Toxics)]	Y	
Part 10	Deleted.		
Part 11	All CFP Pprocess drains installed as part of the CFP shall be fitted with a "P", trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: (BACT)]	Y	
Part 12	CFP Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 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	
<u>BAAQMD Condition #24197</u>	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 1</u>	<u>Pumps (Cumulative Increase, offsets, Toxics)]</u>	<u>Y</u>	
<u>Part 4</u>	<u>Hydrocarbon flow control valves (BACT)</u>	<u>Y</u>	
<u>Part 5</u>	<u>All other hydrocarbon valves (BACT)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Flanges (BACT, Offsets, Cumulative Increase, Toxics)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	Process drains (BACT)	Y	
Part 12	Total fugitive POC emissions(Cumulative Increase)	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.355(k)(1)	Total Benzene Quantity (TBQ) Quantification	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Wastewater Collection and Separation Systems (09/15/2004)		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-601	Wastewater Analysis for Critical Organic compounds	N	
SIP · Regulation 8 Rule 8	Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for benzene wastewater diverted to S-156		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option	Y	
61.355(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
61.342(e)(2)(i)	Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k)	Y	
61.355(k)(1)	TBQ in waste streams not controlled for air emissions – use 61.355(a) methods Total Benzene Quantity (TBQ) Quantification	Y	
61.356(b)	Recordkeeping Requirements: Waste Stream records	Y	
61.356(b)(4)	Recordkeeping Requirements: Waste Stream records; records for streams controlled under 61.342(e)	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	

**Table IV - H2.1
 Source-Specific Applicable Requirements
 Biotreaters
 S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B, BIOX-2001, TK-2083)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
SIP Regulation 8 Rule 8	Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)		

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, TK-2083)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
40 CFR 61.348(a)	Standards: Treatment Processes	Y	
40 CFR 61.348(e)(1)	Standards: Treatment Processes	Y	
40 CFR 61.348(g)	Standards: Treatment Processes	Y	
40 CFR 61.354(a)	Monitoring of Operations; Treatment process and units	Y	
40 CFR 61.354(a)(2)	Monitoring of Operations; Treatment process and units—Continuously monitor process parameters	Y	
40 CFR 61.354(b)	Monitoring of Operations	Y	
40 CFR 61.354(b)(2)	Inlet benzene monitored monthly	Y	
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(i)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (9/15/2004)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 8 Rule 8	Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
40 CFR 61.348(a)	Standards: Treatment Processes	Y	
40 CFR 61.348(c)(1)	Standards: Treatment Processes	Y	
40 CFR 61.348(g)	Standards: Treatment Processes	Y	
40 CFR 61.354(a)	Monitoring of Operations; Treatment process and units	Y	
40 CFR 61.354(a)(2)	Monitoring of Operations; Treatment process and units—Continuously monitor process parameters	Y	
40 CFR 61.354(b)	Monitoring of Operations	Y	
40 CFR 61.354(b)(2)	Inlet benzene monitored monthly	Y	
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(i)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8	Wastewater Collection and Separation Systems (09/15/2004)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 8			
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	N	
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in covers/vent pipes if total open area does not exceed 12.6 square inches and vent pipes are 3 ft long.	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	
8-8-313	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; comply with 8-8-313.1 or 8-8-313.2 for uncontrolled sources	N	
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries; Inspection and Maintenance Plan Option	N	
8-8-314	New Wastewater Collection System Components at Petroleum Refineries; equip new components with water seal or equivalent control	N	
8-8-402	Wastewater Inspection and Maintenance Plans at Petroleum Refineries	N	
8-8-402.1	Wastewater Inspection and Maintenance Plans at Petroleum Refineries-: ID all components and submit to BAAQMD	N	
8-8-402.2	Wastewater Inspection and Maintenance Plans at Petroleum Refineries; complete initial inspection of components	N	
8-8-402.3	Wastewater Inspection and Maintenance Plans at Petroleum Refineries; implement 8-8-313.2 Inspection and Maintenance Plan	N	
8-8-402.4	Wastewater Inspection and Maintenance Plans at Petroleum Refineries; semi-annual inspections of controlled equipment	N	
8-8-402.5	Wastewater Inspection and Maintenance Plans at Petroleum Refineries; keep records per 8-8-505	N	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.1	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.2	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.3	Records for Wastewater Collection System Components at Petroleum	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Refineries		
8-8-505.4	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-112	Exemption, Wastewater Critical OC Concentration or Temperature	Y	
8-8-502	Wastewater Critical OC Concentration and/or Temperature Records	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
8-8-603	Inspection Procedures	Y	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/4/2003)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
<u>61.341</u>	<u>Definitions</u>	<u>Y</u>	
<u>61.342</u>	<u>Standards: General</u>	<u>Y</u>	
61.342(e)	Standards: General; <u>Compliance option – Treat to 6 or 6BQ Option Alternative to 61.342(e) and 61.342(d)</u>	Y	
61.342(e)(2)	<u>Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option; Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.</u>	Y	
61.342(e)(2)(i)	<u>Standards: General; Uncontrolled aqueous wastes shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBO)). Standards: General; 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene.</u>	Y	
61.342(e)(2)(ii)	<u>Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k). Standards: General; Determine 61.342(e)(2) benzene quantity per 61.355(k)</u>	Y	
<u>61.355(k)(1)</u>	<u>TBO in waste streams not controlled for air emissions – use 61.355(a) methods</u>	<u>Y</u>	
61.356(b)	<u>Recordkeeping Requirements: Waste Stream records</u>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(b)(4)	Recordkeeping Requirements : Waste Stream records; records for streams controlled under 61.342(e)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)		
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per second (300 gal/min), must be equipped with:	Y	
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	N	
8-8-302.6	Inspect petroleum refinery control equipment (fixed covers, access doors, and other openings) initially and semi-annually. Must be vapor-tight (<500ppm).	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 8 · Rule 8			
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(e)	Applicability: Exempt Waste	Y	
61.340(d)	Exemption when routed to fuel gas system for emissions routed to fuel gas system [S188 is vented to refinery fuel gas system]	Y	
<u>61.347</u>	<u>Standards: Oil-Water Separators</u>	<u>Y</u>	
<u>61.347(a)</u>	<u>Standards: Oil-Water Separators; Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:</u>	<u>Y</u>	
<u>61.347(a)(1)</u>	<u>Standards: Oil-Water Separators; Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control device. [S188 is vented to refinery fuel gas system]</u>	<u>Y</u>	
<u>61.347(a)(1)(i)</u>	<u>Standards: Oil-Water Separators; Fixed roof requirements [S188 is vented to refinery fuel gas system]</u>	<u>Y</u>	
<u>61.347(a)(1)(i)(A)</u>	<u>Standards: Oil-Water Separators; Fixed roof--No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.</u>	<u>Y</u>	
<u>61.347(a)(1)(i)(B)</u>	<u>Standards: Oil-Water Separators; Fixed roof--All openings must be closed and sealed (gasketed lids and latched) at all times except for equipment inspection, maintenance, or repair</u>	<u>Y</u>	
<u>61.347(b)</u>	<u>Standards: Oil-Water Separators; Visually inspect cover seals, access hatches, and other openings quarterly. No cracks or gaps allowed between the cover and wall and access hatches must be closed and gasketed</u>	<u>Y</u>	
<u>61.347(c)</u>	<u>Standards: Oil-Water Separators; Except for delay of repair, repairs required not later than 15 calendar days after discovery of defect.</u>	<u>Y</u>	
61.349(a)(1)(ii)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements	Y	
<u>61.349(a)(1)</u>	<u>Standards: Closed-Vent Systems and Control Devices; Bypass line</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(ii)(B)	requirements: Car-sealed valves		
61.354(f)	Monitoring of Operations: Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations: Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 4882			
Part 1	Abatement requirements S-188 and S-189 (Cumulative Increase) For sources S-188 and S-189, the Oil/Water/Sediment Separator (S-188) and the Induced Static Flotation Cell (S-189) shall be vented to the existing flare (S-18) at all times. [Basis: Cumulative Increase]	Y	
Part 2	Throughput limits S-188 and S-189 (Cumulative Increase) S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [Basis: Cumulative Increase]	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Wastewater Collection and Separation Systems (09/15/2004)		
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per second (300 gal/min), must be equipped with:	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	N	
8-8-302.6	Inspect petroleum refinery control equipment (fixed covers, access doors, and other openings) initially and semi-annually. Must be vapor-tight (<500ppm).	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP- Regulation 8, Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<u>BAAQMD : Regulation 11 : Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
<u>61.340(a)</u>	<u>Applicability: Coke by-product recovery, petroleum refineries</u>	<u>Y</u>	
<u>61.347</u>	<u>Standards: Oil-Water Separators</u>	<u>Y</u>	
61.347(a)	<u>Standards: Oil-Water Separators</u> : Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
61.347(a)(1)	<u>Standards: Oil-Water Separators</u> : Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	separator to a control		
61.347(a)(1)(i)	Standards: Oil-Water Separators; Fixed roof requirements	Y	
61.347(a)(1)(i)(A)	Standards: Oil-Water Separators; Fixed roof-- No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.	Y	
61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; Fixed roof-- All openings must be closed and sealed (gasketed lids and latched) at all times except for equipment inspection, maintenance, or repair. No openings	Y	
61.347(a)(1)(ii)	Standards: Oil-Water Separators: Closed-vent systems are subject to 61.349.	Y	
61.347(b)	Standards: Oil-Water Separators; Visually inspect cover seals, access hatches, and other openings quarterly. No cracks or gaps allowed between the cover and wall and access hatches must be closed and gasketed. 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	
61.347(c)	Standards: Oil-Water Separators; Except for delay or repair, repairs required not later than 15 calendar days after discovery of defect, 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	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices; No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.	Y	
61.349(a)(1)(ii)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements	Y	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices: Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices: Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices: Safety valve provisions	Y	
61.349(a)(2)(i)(A)	Standards: Closed-Vent Systems and Control Devices: Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices: Controlled by vapor	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(2)(ii)	recovery: 95% VOC or 98% benzene control		
61.349(b)	Standards: Closed-Vent Systems and Control Devices ; Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices ; Demonstrate efficiency required in 61.349(a)(2)	Y	
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices ; Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices ; Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices ; Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitoring of Operations ; Monitor thermal vapor incinerator temperature	Y	
61.354(d)	Monitoring of Operations ; Monitor non-regenerated carbon adsorption system requirements	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations ; Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	<u>Y</u>	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	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.	<u>Y</u>	
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.	<u>Y</u>	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>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.</u>		
<u>BAAQMD Condition #11879</u>			
<u>Part 1</u>	<u>Abatement Requirements – carbon canisters and/or thermal oxidizer.(Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 2</u>	<u>Combined throughput limit for S-194, S-195, S-197 and S-198 not to exceed 3000 gallons per minute. (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>BAAQMD Condition # 13319</u>			
<u>Part 1</u>	<u>The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method [Basis: BAAQMD 2-2-112]</u>	<u>Y</u>	
<u>Part 2</u>	<u>The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)</u>	<u>Y</u>	
<u>Part 3</u>	<u>The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)</u>	<u>Y</u>	
<u>Part 4</u>	<u>The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403</u>	<u>Y</u>	
<u>Part 5</u>	<u>The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	The total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 shall not exceed 3000 gallons per minute. [Basis: Cumulative Increase]	Y	
Part 10	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]	Y	
Part 11	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	These sources shall be abated by two 700 lb (minimum) carbon canisters in series(A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 15	The total combined non-methane hydrocarbons (NMHC) emission emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	
Part 16	NMHC shall be determined from the continuously monitored flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 17	<p>To demonstrate compliance with Condition 15, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]</p> <ul style="list-style-type: none"> 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. 	N	
Part 18	<p>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]</p>	N	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)		
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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
61.340(d)	Exemption for emissions routed to fuel gas system [S189 is vented to refinery fuel gas system]	Y	
61.347	Standards: Oil-Water Separators	Y	
61.347(a)	Standards: Oil-Water Separators: Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
61.347(a)(1)	Standards: Oil-Water Separators: Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control device. [S189 is vented to refinery fuel gas system]	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators: Fixed roof requirements [S189 is vented to refinery fuel gas system]	Y	
61.347(a)(1)(i)(A)	Standards: Oil-Water Separators: Fixed roof--No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.	Y	
61.347(a)(1)	Standards: Oil-Water Separators: Fixed roof--All openings must be closed	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(i)(B)	and sealed (gasketed lids and latched) at all times except for equipment inspection, maintenance, or repair		
61.347(b)	Standards: Oil-Water Separators; Visually inspect cover seals, access hatches, and other openings quarterly. No cracks or gaps allowed between the cover and wall and access hatches must be closed and gasketed	Y	
61.347(c)	Standards: Oil-Water Separators; Except for delay of repair, repairs required not later than 15 calendar days after discovery of defect.	Y	
61.349(a)(1)(ii)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements	Y	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements: Car-sealed valves	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
BAAQMD Condition # 4882			
Part 1	Abatement requirements S-188 and S-189 (Cumulative Increase)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-48) at all times. [Basis: Cumulative Increase]	Y	
Part 2	Throughput limits S-188 and S-189 (Cumulative Increase)S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit: Any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gal/min unless is equipped with:	Y	
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
<u>61.340(a)</u>	<u>Applicability: Coke by-product recovery, petroleum refineries</u>	<u>Y</u>	
<u>61.347</u>	<u>Standards: Oil-Water Separators</u>	<u>Y</u>	
61.347(a)	<u>Standards: Oil-Water Separators:</u> Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
61.347(a)(1)	<u>Standards: Oil-Water Separators:</u> 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	
<u>61.347(a)(1)(i)</u>	<u>Standards: Oil-Water Separators: Fixed roof requirements</u>	<u>Y</u>	
<u>61.347(a)(1)(i)(</u>	<u>Standards: Oil-Water Separators: Fixed roof-- No detectable emissions</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
A)	(<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.		
61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; Fixed roof-- All openings must be closed and sealed (gasketed lids and latched) at all times except for equipment inspection, maintenance, or repair. No openings	Y	
61.347(a)(1)(ii)	Standards: Oil-Water Separators; Closed-vent systems are subject to 61.349.	Y	
61.347(b)	Standards: Oil-Water Separators; Visually inspect cover seals, access hatches, and other openings quarterly. No cracks or gaps allowed between the cover and wall and access hatches must be closed and gasketed. 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	
61.347(c)	Standards: Oil-Water Separators; Except for delay or repair, repairs required =not later than 15 calendar days after discovery of defect, 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	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices; No detectable emissions (<500 ppm) (cover and all openings in cover). Inspect per EPA Method 21 at least annually.	<u>Y</u>	
61.349(a)(1)(ii)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements	<u>Y</u>	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices; Safety valve provisions	Y	
61.349(a)(2)(i)(A)	Standards: Closed-Vent Systems and Control Devices; Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Controlled by vapor	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(2)(ii)	recovery: 95% VOC or 98% benzene control		
61.349(b)	Standards: Closed-Vent Systems and Control Devices ; Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices ; Demonstrate efficiency required in 61.349(a)(2)	Y	
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices ; Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices ; Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices ; Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitoring of Operations ; Monitor thermal vapor incinerator temperature	Y	
61.354(d)	Monitoring of Operations ; Non Monitor non-regenerate carbon adsorption system requirements	Y	
61.354(f)	Monitoring of Operations ; Closed vent system with bypass line	<u>Y</u>	
61.354(f)(1)	Monitoring of Operations ; Visually inspect carseal/valve positions monthly	Y	
NESHAPS Title 40 CFR Part 63 -Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	<u>Y</u>	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	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.	<u>Y</u>	
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	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>operate consistently with the permitted concentration or operating parameter values.</u>		
<u>63.654(a)</u>	<u>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.</u>	Y	
<u>BAAQMD Condition #11879</u>			
<u>Part 1</u>	<u>Abatement Requirements – carbon canisters and/or thermal oxidizer. (Basis: Cumulative Increase)</u>	Y	
<u>Part 2</u>	<u>Combined throughput limit for S-194, S-195, S-197 and S-198 not to exceed 3000 gallons per minute. (Basis: Cumulative Increase)</u>	Y	
<u>Part 9</u>	<u>Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)</u>	Y	
<u>BAAQMD Condition # 13319</u>			
<u>Part 1</u>	<u>The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method [Basis: BAAQMD 2-2-112]</u>	N	
<u>Part 2</u>	<u>The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)</u>	N	
<u>Part 3</u>	<u>The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)</u>	N	
<u>Part 4</u>	<u>The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)</u>	N	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 16	<p>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]</p>	Y	
Part 17	<p>To demonstrate compliance with Condition 15, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]</p> <ul style="list-style-type: none"> f. Daily NMHC emission rate in pounds per day. g. Daily NMHC emission rate, as averaged over one month in pounds per day. h. Daily flow rate and outlet NMHC concentration. i. Carbon canister changeout date. j. Total volume of gas recorded between carbon canister changeout. 	Y	
Part 18	<p>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]</p>	Y	

IV. Source Specific Applicable Requirements

Table IV - H6
Source-Specific Applicable Requirements
BIOX Sludge Thickener
S-192 (TK-2052)
Wastewater BIOX Sludge
S-217, S-218, S-219 (TK-791NSD, TK-424SD, TK-131SD)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (6/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004) (
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
SIP Regulation 8 Rule 8	Organic Compounds, California Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
BAAQMD Condition #20762			
Part 1	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117) Verify true vapor pressure (8-5-117)	Y	
Part 2	Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5) Comply with Regulation 8-5 when switching different service	Y	
Part 3	Recordkeeping requirements (8-5-117)	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 Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (6/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Regulation 8 Rule 8	Organic Compounds, California Wastewater Collection and Separation Systems (9/15/2004)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
SIP 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	
BAAQMD Condition #20762			
Part 1	Verify true vapor pressure (8-5-117)	Y	
Part 2	Comply with Regulation 8-5 when switching different service	Y	
Part 3	Recordkeeping (8-5-117)	Y	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds, Wastewater Collection and Separation Systems (9/15/2004)</u>		
<u>8-8-303</u>	<u>Gauging and Sampling Devices</u>	<u>Y</u>	
<u>8-8-304</u>	<u>Sludge-dewatering Unit. Totally enclosed and vented to a control device >= 95 % (wt) abatement efficiency. Sludge must be maintained in vapor tight containers during storage.</u>	<u>N</u>	
<u>8-8-504</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>N</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>N</u>	
<u>SIP - Regulation 8 - Rule 8</u>	<u>Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)</u>		
<u>8-8-304</u>	<u>Sludge-dewatering Unit. Totally enclosed and vented to a control device >= 95 % (wt) abatement efficiency.</u>	<u>Y</u>	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>Y</u>	
<u>BAAQMD- Regulation 8 Rule 5</u>	<u>Organic Compounds, Storage of Organic Liquids (10/18/2006)</u>		
<u>8-5-111</u>	<u>Limited Exemption, Tank Removal From and Return to Service</u>	<u>N</u>	
<u>8-5-111.1</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Notification</u>	<u>Y</u>	
<u>8-5-111.2</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification</u>	<u>N</u>	
<u>8-5-111.4</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped</u>	<u>Y</u>	
<u>8-5-111.5</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328</u>	<u>N</u>	
<u>8-5-111.6</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas-tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed	N	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
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S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks: no liquid leakage through shell		
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	Y	
8-5-331	Tank Cleaning Requirements	Y	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	Y	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	Y	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	Y	
8-5-403	Inspection Requirements for Pressure Relief Devices	Y	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	Y	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	Y	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	Y	
8-5-411	Enhanced Monitoring Program (Optional)	Y	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP— Retain 24 months	Y	
8-5-501.3	Records; Retention	Y	
8-5-501.4	Records; New PV setpoints	Y	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	Y	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	Y	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
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S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
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S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of < 10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.343(a)(1)	Standards: Tanks; Fixed Roof-- <u>Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the tank to a control device with closed vent system</u>	Y	
61.343(a)(1)(i)	Standards: Tanks; Fixed Roof	Y	
61.343(a)(1)(i)(A)	Standards: Tanks; Fixed Roof - No detectable emissions >= 500 ppmv; annual inspection	Y	
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
~~Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene~~
~~Wastewater~~
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
<u>61.349(a)(1)</u>	<u>Standards: Closed-Vent Systems and Control Devices: Closed vent system requirements</u>	<u>Y</u>	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
<u>61.349(a)(1)(ii)</u>	<u>Standards: Closed-Vent Systems and Control Devices: Bypass line requirements</u>	<u>Y</u>	
61.349(a)(1)(ii)(B)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Safety valve provisions	Y	
<u>61.349(a)(2)</u>	<u>Standards: Closed-Vent Systems and Control Devices: Control device requirements</u>	<u>Y</u>	
<u>61.349(a)(2)(i)</u>	<u>Standards: Closed-Vent Systems and Control Devices: Control device requirements: Enclosed combustion device requirements</u>	<u>Y</u>	
61.349(a)(2)(i)(A)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
61.349(a)(2)(ii)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Controlled by vapor recovery (<u>carbon adsorption</u>): 95% VOC or 98% benzene control	Y	
61.349(b)	<u>Standards: Closed-Vent Systems and Control Devices: Control device requirements: Enclosed combustion device requirements:</u> Operated at all times.	Y	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices—Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.349(c)	Standards: Closed-Vent Systems and Control Devices: Control Device Performance Demonstration	<u>Y</u>	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices: Demonstrate efficiency required in 61.349(a)(2)Control Device Performance Demonstration—Engineering calculations	Y	
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices: Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices: Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices: Monitor per 61.354(c)	Y	
61.354	Monitoring of Operations	<u>Y</u>	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitoring of Operations: Monitor thermal vapor incinerator temperature	Y	
61.354(d)	Monitoring of Operations: Monitor Non-regenerated carbon adsorption system requirements	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations: Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1) <u>(S-200 only)</u>	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	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	
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	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition # 11879	<u>Consolidated Wastewater Condition</u>		
<u>Part 1</u>	<u>Abatement Requirements – A37 carbon canisters and/or A57 thermal oxidizer. (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 3</u>	<u>NOx limit - A57 thermal oxidizer – 25 ppmvd @ 3% O2 (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 4</u>	<u>CO limit - A57 thermal oxidizer – 50 ppmvd @ 3% O2 (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 5</u>	<u>Abatement efficiency - A57 thermal oxidizer – 98.5% (Basis: NSPS and NESHAP)</u>	<u>Y</u>	
<u>Part 6</u>	<u>Oxidation temperature - A57 thermal oxidizer – 1400F (minimum) (3 hour averaging period) (Basis: Regulation 2-1-403)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Temperature monitoring device requirement - A57 thermal oxidizer (Basis: Temperature Monitoring and Regulation 1-521)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
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S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<u>Part 8</u>	<u>Flow meter and organic emission analyzer requirement – A37 carbon canisters (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 10</u>	<u>Combined NMHC limit from A36, A37, and A57 - 15 lb/day (1 month average) (Basis: Regulation 8, Rule 2)</u>	<u>Y</u>	
<u>Part 11</u>	<u>NMHC determination method – A36 and A37 carbon canisters (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 12</u>	<u>NMHC determination method – A57 thermal oxidizer (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 13</u>	<u>Recordkeeping (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 1</u>	<u>The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)</u>	<u>N</u>	
<u>Part 2</u>	<u>The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis BAAQMD 2-2-112)</u>	<u>N</u>	
<u>Part 3</u>	<u>The VOC destruction efficiency of the A-57 Thermal oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)</u>	<u>N</u>	
<u>Part 4</u>	<u>The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. (Basis: Temperature Monitoring)	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	This source shall be abated by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer in at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-34 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J37H7
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices – Benzene
Wastewater
S-131 (TK-2069) WW Sludge Tank
S-150 (TKPST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
Part 13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
~~Storage Drums~~ Slop Oil Vessel with Closed Vent System & Two Control Devices
~~Benzene Wastewater~~
~~S-199, S-200 (D-2055, D-2056)~~
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Regulation 8 Rule 8</u>	<u>Organic Compounds, Wastewater Collection and Separation Systems (9/15/2004)</u>		
<u>8-8-303</u>	<u>Gauging and Sampling Devices</u>	<u>Y</u>	
<u>8-8-305</u>	<u>Oil-water Separator and/or Air Flotation Unit Slop Oil Vessels</u>	<u>Y</u>	
<u>8-8-305.2</u>	<u>Oil-water Separator and/or Air Flotation Unit Slop Oil Vessels; with organic compound vapor recovery system with >= 70% (wt) abatement efficiency</u>	<u>Y</u>	
<u>8-8-503</u>	<u>Inspection and Repair Records</u>	<u>Y</u>	
<u>8-8-504</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>N</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>N</u>	
<u>SIP · Regulation 8 · Rule 8</u>	<u>Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)</u>		
<u>8-8-602</u>	<u>Determination of Emissions</u>	<u>Y</u>	
<u>8-8-603</u>	<u>Inspection Procedures</u>	<u>Y</u>	
<u>BAAQMD- Regulation 8 Rule 5</u>	<u>Organic Compounds, Storage of Organic Liquids (10/18/2006)</u>		
<u>8-5-111</u>	<u>Limited Exemption, Tank Removal From and Return to Service</u>	<u>N</u>	
<u>8-5-111.1</u>	<u>Limited Exemption, Tank Removal From and Return to Service, Notification</u>	<u>Y</u>	
<u>8-5-111.2</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification</u>	<u>N</u>	
<u>8-5-111.4</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped</u>	<u>Y</u>	
<u>8-5-111.5</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328</u>	<u>N</u>	
<u>8-5-111.6</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period</u>	<u>N</u>	
<u>8-5-112</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation</u>	<u>N</u>	
<u>8-5-112.1</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
Storage Drums/Slop Oil Vessel with Closed Vent System & Two Control Devices--
Benzene Wastewater
S-199, S-200 (D-2055, D-2056)
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
~~Storage Drums, Slop Oil Vessel with Closed Vent System & Two Control Devices--~~
~~Benzene Wastewater~~
~~S-199, S-200 (D-2055, D-2056)~~
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP-- Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
Storage Drums/Slop Oil Vessel with Closed Vent System & Two Control Devices--
Benzene Wastewater
S-199, S-200 (D-2055, D-2056)
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	<u>Compliance before notification</u>		
8-5-111.5	<u>Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions</u>	Y	
8-5-111.6	<u>Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required</u>	Y	
8-5-111.7	<u>Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328</u>	Y	
8-5-112	<u>Limited Exemption, Tanks in Operation</u>	Y	
8-5-112.2	<u>Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work</u>	Y	
8-5-112.4	<u>Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days</u>	Y	
8-5-117	<u>Exemption, Low Vapor Pressure</u>	Y	
8-5-301	<u>Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)</u>	Y	
8-5-306	<u>Requirements for Approved Emission Control Systems</u>	Y	
8-5-328	<u>Tank degassing requirements</u>	Y	
8-5-328.2	<u>Tank degassing requirements; Ozone Excess Day Prohibition</u>	Y	
8-5-503	<u>Portable hydrocarbon detector</u>	Y	
8-5-603	<u>Determination of emissions</u>	Y	
8-5-603.1	<u>Determination of Emissions; Organic compounds specified in 8-5-306</u>	Y	
8-5-605	<u>Pressure Vacuum Valve Gas Tight Determination</u>	Y	
<u>BAAQMD - Regulation 11 - Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	Y	
<u>NESHAPS Title 40 CFR Part 61 Subpart FF</u>	<u>NESHAPS, Benzene Waste Operations (12/04/2003)</u>		
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
<u>61.343(a)(1)(i)</u>	<u>Standards: Tanks; Fixed Roof</u>	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J39H8~~
Source-Specific Applicable Requirements
~~Storage Drums Slop Oil Vessel with Closed Vent System & Two Control Devices--~~
~~Benzene Wastewater~~
~~S-199, S-200 (D-2055, D-2056)~~
~~Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer~~

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.343(a)(1)(i)(A)	Standards: Tanks; Fixed Roof - No detectable emissions >= 500 ppmv; annual inspection	Y	
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
61.349(a)(1)(ii)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements	Y	
61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Safety valve provisions	Y	
61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
61.349(b)	Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Visually inspect for leaks quarterly	Y	
61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Monitor per 61.354(c)	Y	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
Storage Drums/Slop Oil Vessel with Closed Vent System & Two Control Devices--
Benzene Wastewater
S-199, S-200 (D-2055, D-2056)
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
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 <u>40 CFR Part 63</u> Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	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	
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	
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	
<u>BAAQMD</u> <u>Condition 11879</u>	<u>Consolidated Wastewater Condition</u>		
<u>Part 1</u>	<u>Abatement Requirements – A37 carbon canisters and/or A57 thermal oxidizer.(Basis: Cumulative Increase)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
~~Storage Drums~~ Slop Oil Vessel with Closed Vent System & Two Control Devices--
Benzene Wastewater
~~S-199, S-200 (D-2055, D-2056)~~
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 3	NOx limit - A57 thermal oxidizer – 25 ppmvd @ 3% O2 (Basis: Cumulative Increase)	Y	
Part 4	CO limit - A57 thermal oxidizer – 50 ppmvd @ 3% O2 (Basis: Cumulative Increase)	Y	
Part 5	Abatement efficiency - A57 thermal oxidizer – 98.5% (Basis: NSPS and NESHAP)	Y	
Part 6	Oxidation temperature - A57 thermal oxidizer – 1400F (minimum) (3 hour averaging period) (Basis: Regulation 2-1-403)	Y	
Part 7	Temperature monitoring device requirement - A57 thermal oxidizer (Basis: Temperature Monitoring and Regulation 1-521)	Y	
Part 8	Flow meter and organic emission analyzer requirement – A37 carbon canisters (Basis: Cumulative Increase)	Y	
Part 9	Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)	Y	
Part 10	Combined NMHC limit from A36, A37, and A57 - 15 lb/day (1 month average) (Basis: Regulation 8, Rule 2)	Y	
Part 11	NMHC determination method – A36 and A37 carbon canisters (Basis: Cumulative Increase)	Y	
Part 12	NMHC determination method – A57 thermal oxidizer (Basis: Cumulative Increase)	Y	
Part 13	Recordkeeping (Basis: Cumulative Increase)	Y	
BAAQMD Condition # 11882			
Part 1	S-199 and S-200: The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
~~Storage Drums/Slop Oil Vessel with Closed Vent System & Two Control Devices--~~
~~Benzene Wastewater~~
~~S-199, S-200 (D-2055, D-2056)~~
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	These sources shall be abated by two 700-lb (minimum) carbon canisters (A-37) in series and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced	Y	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
~~Storage Drums~~Slop Oil Vessel with Closed Vent System & Two Control Devices--
Benzene Wastewater
~~S-199, S-200 (D-2055, D-2056)~~
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]		
Part 12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] 1. Daily NMHC emission rate in pounds per day. 2. Daily NMHC emission rate, as averaged over one month, in pounds per day. 3. Daily flow rate and outlet NMHC concentration. 4. Carbon canister changeout date. Total volume of gas recorded between carbon canister changeout.	Y	
Part 13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - J39H8
Source-Specific Applicable Requirements
Storage Drums/Slop Oil Vessel with Closed Vent System & Two Control Devices--
Benzene Wastewater
S-199, S-200 (D-2055, D-2056)
Abated by A-37 Carbon Canisters and/or A-57 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	N	

Table IV – H9
Source-Specific Applicable Requirements
Individual Drain Systems Subject to 40 CFR Part 60, Subpart QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>40 CFR Part 60 Subpart QQQ</u>	<u>Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (10/17/2000)</u>		
<u>60.690</u>	<u>Applicability and designation of affected facility</u>	<u>Y</u>	
<u>60.690(a)(1)</u>	<u>Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987</u>	<u>Y</u>	
<u>60.690(a)(2)</u>	<u>An individual drain system is a separate affected facility [all process drains connected to the first common downstream junction box. The term includes all such drains and common junction box, together with their associated sewer lines and other junction boxes, down to the receiving oil-water separator]</u>	<u>Y</u>	
<u>60.691</u>	<u>Definitions</u>	<u>Y</u>	
<u>60.692-1</u>	<u>Standards: General</u>	<u>Y</u>	
<u>60.692-1(a)</u>	<u>Standards: General; Comply except during periods of startup, shutdown, or malfunction</u>	<u>Y</u>	
<u>60.692-1(b)</u>	<u>Standards: General; Determination of compliance</u>	<u>Y</u>	
<u>60.692-1(c)</u>	<u>Standards: General; Alternative means of compliance</u>	<u>Y</u>	
<u>60.692-1(d)</u>	<u>Standards: General; Exemptions</u>	<u>Y</u>	
<u>60.692-2</u>	<u>Standards: Individual drain systems</u>	<u>Y</u>	
<u>60.692-2(a)(1)</u>	<u>Standards: Individual drain systems; equip each drain with water seal</u>	<u>Y</u>	
<u>60.692-2(a)(2)</u>	<u>Standards: Individual drain systems; Drains in active service - Monthly visual or physical inspections for low water level or other problem</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – H9
Source-Specific Applicable Requirements
Individual Drain Systems Subject to 40 CFR Part 60, Subpart QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>60.692-2(a)(3)</u>	<u>Standards: Individual drain systems; Drains out of active service - Weekly visual or physical inspections for low water level or other problem</u>	Y	
<u>60.692-2(a)(4)</u>	<u>Standards: Individual drain systems; Drains out of active service – Alternative to weekly inspection – tightly sealed cap or plug with semiannual inspections</u>	Y	
<u>60.692-2(a)(5)</u>	<u>Standards: Individual drain systems; Repair – first attempt within 24 hours of detection unless delay of repair (60.692-6)</u>	Y	
<u>60.692-2(b)(1)</u>	<u>Standards: Individual drain systems; Junction box requirements – vent pipes</u>	Y	
<u>60.692-2(b)(2)</u>	<u>Standards: Individual drain systems; Junction box requirements – sealed covers</u>	Y	
<u>60.692-2(b)(3)</u>	<u>Standards: Individual drain systems; Junction box requirements – sealed covers - semiannual visual inspections</u>	Y	
<u>60.692-2(b)(3)</u>	<u>Standards: Individual drain systems; Junction box requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)</u>	Y	
<u>60.692-2(c)(1)</u>	<u>Standards: Individual drain systems; Sewer line requirements – no visual gaps or cracks</u>	Y	
<u>60.692-2(c)(2)</u>	<u>Standards: Individual drain systems; Sewer line requirements – semiannual inspections of unburied sewer lines</u>	Y	
<u>60.692-2(c)(3)</u>	<u>Standards: Individual drain systems; Sewer line requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)</u>	Y	
<u>60.692-2(d)</u>	<u>Standards: Individual drain systems; Exemption for systems with catch basins installed prior to May 4, 1987</u>	Y	
<u>60.692-2(e)</u>	<u>Standards: Individual drain systems; Refinery wastewater routed through new process drains and a new first common downstream junction box as part of new or existing individual drain system, shall not be routed through a downstream catch basin.</u>	Y	
<u>60.692-6</u>	<u>Standards: Delay of repair</u>	Y	
<u>60.692-6(a)</u>	<u>Standards: Delay of repair: Allowances for delay of repair</u>	Y	
<u>60.692-6(b)</u>	<u>Standards: Delay of repair: Complete repairs before end of next refinery or process unit shutdown</u>	Y	
<u>60.697</u>	<u>Recordkeeping requirements</u>	Y	
<u>60.697(a)</u>	<u>Recordkeeping requirements: retention</u>	Y	
<u>60.697(b)(1)</u>	<u>Recordkeeping requirements: individual drain systems – records of corrective actions when inspections detect dry water seals or other problems</u>	Y	
<u>60.697(b)(2)</u>	<u>Recordkeeping requirements: junction boxes – records of corrective actions when inspections detect problems</u>	Y	
<u>60.697(b)(3)</u>	<u>Recordkeeping requirements: sewer lines – records of corrective actions</u>	Y	

IV. Source Specific Applicable Requirements

Table IV – H9
Source-Specific Applicable Requirements
Individual Drain Systems Subject to 40 CFR Part 60, Subpart QQQ

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>when inspections detect r problems</u>		
<u>60.697(e)(1)</u>	<u>Recordkeeping requirements: delay of repair - expected date of repair</u>	<u>Y</u>	
<u>60.697(e)(2)</u>	<u>Recordkeeping requirements: delay of repair – reason for delay</u>	<u>Y</u>	
<u>60.697(e)(3)</u>	<u>Recordkeeping requirements: delay of repair – signature of delay of repair decision maker [owner/operator/designee]</u>	<u>Y</u>	
<u>60.697(e)(4)</u>	<u>Recordkeeping requirements: delay of repair - actual date of repair</u>	<u>Y</u>	
<u>60.697(f)(1)</u>	<u>Recordkeeping requirements: design specifications – retain for life of equipment</u>	<u>Y</u>	
<u>60.697(f)(2)</u>	<u>Recordkeeping requirements: design specifications – information required</u>	<u>Y</u>	
<u>60.697(g)</u>	<u>Recordkeeping requirements: plans showing location of drains with caps and plugs – retain for life of facility</u>	<u>Y</u>	
<u>60.698</u>	<u>Reporting requirements</u>	<u>Y</u>	
<u>60.698(b)(1)</u>	<u>Reporting requirements: semiannual certification of required inspections</u>	<u>Y</u>	
<u>60.698(c)</u>	<u>Reporting requirements: semiannual summary of all inspections that detected dry water seals, missing or incorrectly installed drain cap or plug, or other problems including repairs and corrective actions</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV- XI									
Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> Subpart VV (1), (6)	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> Subpart GGGa <u>40 CFR Part 60,</u> Subpart VVa (1), (6) NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS <u>40 CFR Part 61,</u> Subparts J and V; BAAQMD Reg. 11-7 (1), (2), (5)	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>40 CFR Part 60,</u> Subpart VV (1)
S-9 Flare Gas Rec. System	X								X Exempt <u>[63.640(d)(5)]</u>
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			Exempt <u>[63.640(o)(1)]</u> X (3)			Exempt X		Exempt <u>[63.640(d)(5)]</u>
S-189 OMS ISF	X			Exempt <u>[63.640(o)(1)]</u> X (3)			Exempt X		Exempt <u>[63.640(d)(5)]</u>
S-201 WWT Vacuum Truck Load (from S-192)-	X			X (3)			X		
S-202 WWT Vacuum Truck Load (from S-131)-	X			X (3)			X		
S-208 Coker Feed Drum (D-920)	X						X		Exempt <u>[63.640(d)(5)]</u>
S-209 Methanol /Ethanol	X	<u>9296</u>							

IV. Source Specific Applicable Requirements

Table IV- XI Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS-Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>[40 CFR Part 60,</u> <u>Subpart VVa]</u> <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> <u>Subpart VV]</u> <u>(1)</u>
Truck Unloading-		<u>F1, F2</u>							
S-211 Alkylate Debutanizer (at former MTBE Unit)	X	COND 18043 1 10574-52	X(+)		X(+)				X
S-231 Aqueous NH3 Drum									
S-1002 Diesel Hydrofiner	X		X(+)		X(+)				X
S-1003 Hydrocracker (HCU)	X	COND 1057 4 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)	X(+)		X(+)	<u>X</u>			X
S-1004 Powerformer	X								X
S-1005 Catalytic Feed Hydro.	X		X(+)		X(+)				X
S-1006 Pipestill Unit	X		X(+)		X(+)				X
S-1007 Alkylation Unit	X	COND 10574	X(+)		X(+)				X

IV. Source Specific Applicable Requirements

Table IV- <u>XI0</u>									
Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS-Part <u>60,</u> Subpart <u>VV;</u> BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> Subpart GGGa <u>[40 CFR Part 60,</u> Subpart VVa] <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> Subpart VV] <u>(1)</u>
		1, 4, 5, 7, 8, 11, 12, 52 (superseded by 24197) COND 18043 1							
S-1008 Gasoline Hydrofiner	X		X (+)		X (+)				X
S-1009 Jet Fuel Hydrofiner	X		X (+)		X (+)				X
S-1010 Hydrogen Plant	X								
S-1011 Heavy Cat Naphtha Hydrofiner	X	COND 10574 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)	X (+)		X (+)	X			X
S-1012 Dimersol Unit	X	COND 18043	X		X				

IV. Source Specific Applicable Requirements

Table IV- <u>XI0</u>									
Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> Subpart VV <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS-Part <u>60,</u> Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> Subpart GGGa <u>40 CFR Part 60,</u> Subpart VVa <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts J and V; BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>40 CFR Part 60,</u> Subpart VV <u>(1)</u>
		1							
S-1014 Cat Light Ends	X	COND 18043 1	X(+)		X(+)	X			X
S-1020 Heartcut Tower (MRU), except for Heartcut Stream	X	COND 10574 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)	X(+)		X(+)				X
S-1021 Heartcut Sat Unit (MRU) except for Heartcut Stream	X	COND 10574 1, 4, 5, 7, 8 11, 12 (superseded by 24197)	X(+)		X(+)				X
S-1022 Cat Ref T90 Tower MRU	X	COND 10574 1, 4, 5, 7,	X(+)		X(+)				X

IV. Source Specific Applicable Requirements

Table IV- <u>XI0</u>									
Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> (1), (6)	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS-Part 60; Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>[40 CFR Part 60,</u> <u>Subpart VVa]</u> (1), (6) NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 (1), (2), (5)	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> <u>Subpart VV]</u> (1)
		8, 11, 12 (superseded by 24197)							
S-1023 Cat Nap T90 Tower MRU	X	COND 10574 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)	X(+)		X(+)				X
S-1024 Lt Cat Nap Hydrotreater MRU	X	COND 10574 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)	X(+)		X(+)	<u>X</u>			X
S-1026 C5/C6 Splitter (MRU)	X	COND 10574 1, 4, 5, 7, 8, 11, 12	X(+)		X(+)				X

IV. Source Specific Applicable Requirements

Table IV- XI Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS-Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>[40 CFR Part 60,</u> <u>Subpart VVa]</u> <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> <u>Subpart VV]</u> <u>(1)</u>
		(superseded by 24197)							
Heartcut Stream (MRU) (2)	X	COND 10574 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)	X(+)		X(+)	X(+)		X (+)(24)	X
S-1030 Combustion Turbine Generator (CoGen Phase I)	X		<u>Exempt</u>			<u>Exempt</u>			<u>Exempt</u>
S-1031 Heat Recovery Steam Generator (CoGen Phase I)	X		<u>Exempt</u>			<u>Exempt</u>			<u>Exempt</u>
<u>S-1034 Butamer Deisobutanizer (T-4801)</u>	<u>X</u>	<u>24080</u> <u>1, 2</u>				<u>X</u>			<u>X</u>
<u>S-1035 Butamer Reactor Effluent Stripper (T-4802)</u>	<u>X</u>	<u>24080</u> <u>1, 2</u>				<u>X</u>			<u>X</u>
<u>S-1036 Stripper Tower (ULSD)</u>	<u>X</u>	<u>22949</u> <u>1, 2</u>	<u>X</u>		X(+)				<u>X</u>
<u>S-1049 Butamer Reactor</u>	<u>X</u>	<u>24080</u>				<u>X</u>			<u>X</u>

IV. Source Specific Applicable Requirements

Table IV- XI Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>[40 CFR Part 60,</u> <u>Subpart VVa]</u> <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> <u>Subpart VV]</u> <u>(1)</u>
<u>(R-4803A)</u>		<u>1, 2</u>							
<u>S-1050 Butamer Reactor</u> <u>(R-4803B)</u>	<u>X</u>	<u>24080</u>				<u>X</u>			<u>X</u>
<u>S-1051 Diolefin Reactor</u> <u>(ULSD)</u>	<u>X</u>	<u>22949</u>	<u>X</u>		X(1)				<u>X</u>
<u>S-1052 Hydrotreating Reactor</u> <u>(ULSD)</u>	<u>X</u>	<u>22949</u>	<u>X</u>		X(1)				<u>X</u>
S-1058 Virgin Light Ends, excluding S-1002, S-1008, and S-1009	X	Cond -10574 1, 4, 5, 7, 8, 11, 12 (superseded by 24197)			X(1)				X
<u>S-1062 Hydrogen Unit with</u> <u>Pressure Swing Adsorption</u> <u>(PSA)</u>	<u>X</u>	<u>20820</u>				<u>X</u>			
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- XI Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> (1), (6)	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS-Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>40 CFR Part 60,</u> <u>Subpart VVa</u> (1), (6) NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 (1), (2), (5)	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>40 CFR Part 60,</u> <u>Subpart VV</u> (1)
Vapor Recovery Compressors A-40/41 (C-1702 A/B) at S-65, S-69, S-70 (B5574), S-71 (B5574)	X		X		X				
Compressor C-101C at S-1006	X		X		X				
COGEN Compressors (C4901/C4902)	X		X		X-(GGG)				
Fluid Catalytic Cracking Unit	X		X(+)		X(+)				X
Fuel Gas Scrubbing, Blending, Compression, MEA	X								
Sulfur Gas Unit (FG piping)	X								
Sour Water System	X								
Tail Gas Unit (FG piping)	X								

IV. Source Specific Applicable Requirements

Table IV- XI Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	40 CFR Part 60, Subpart GGGa 40 CFR Part 60, Subpart VVa (1), (6) NESHAPS Part 61, Subpart J	NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 61, Subparts J and V; BAAQMD Reg. 11-7 (1), (2), (5)	NESHAPS 40 CFR Part 63, Subpart CC 40 CFR Part 60, Subpart VV (1)
Utilities (FG piping)	X								
Wastewater Diversion Area Tanks and Abatement S-193, S-196, S-205, S-206 A36, A65	Exempt [8-18-115]			Exempt [63.640(o)(1)]			X		X
Wastewater Treatment Plant Sources and Abatement S-131, S-150, S-194, S-195, S-197, S-198, S-199, S-200, A37, A57	X			Exempt [63.640(o)(1)]X (3)			X		X
Railcar Loading/Unloading Rack S-1027	X	Condition 17835, Part 5							
Truck Loading/Unloading Rack	X								
OM-12 Area – Light Ends	X								
LPG Spheres (TK-1721 thru	X								

IV. Source Specific Applicable Requirements

Table IV- XI Fugitive Sources: Applicable Requirements									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS-Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>[40 CFR Part 60,</u> <u>Subpart VVa]</u> <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> <u>Subpart VV]</u> <u>(1)</u>
1725)									
OM-13 Areas:									
Intermediate Feed Storage	X								X
Distillate Storage	X								X
Pipestill Feed	X								X
Slop System	X								X
COKER Feed Tank VRS	X								
OM-14/Dock Areas:									
Dock and DVRU	X								
Crude Field	X								X
Product Tanks	X								X

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Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28 (5)	BAAQMD Permit Conditions (4)	NSPS <u>40 CFR Part 60,</u> Subpart GGG; BAAQMD Reg. 10-59 <u>40 CFR Part 60,</u> <u>Subpart VV</u> <u>(1), (6)</u>	NSPS <u>40 CFR Part 60,</u> Subpart QQQ; BAAQMD Reg. 10-69 <u>(1), (3)</u>	NSPS-Part 60, Subpart VV; BAAQMD Reg. 10-52	<u>40 CFR Part 60,</u> <u>Subpart GGGa</u> <u>[40 CFR Part 60,</u> <u>Subpart VVa]</u> <u>(1), (6)</u> NESHAPS Part 61, Subpart J	NESHAPS <u>40 CFR Part 61,</u> Subpart FF; BAAQMD Reg. 11-12 <u>(1), (3)</u>	NESHAPS <u>40 CFR Part 61,</u> Subparts <u>J and V;</u> BAAQMD Reg. 11-7 <u>(1), (2), (5)</u>	NESHAPS <u>40 CFR Part 63,</u> Subpart CC <u>[40 CFR Part 60,</u> <u>Subpart VV]</u> <u>(1)</u>
Product Pump Pad	X								X
Sulfur and Ammonia									
Day Tanks	X								
OM-15 Areas:									
Mogas Component Tanks	X								X
Blending System	X								X
PFMR Feed	X								X
Cat C5 VRS	X								

Notes:

- (1) ~~Per 63.640 (p),~~ Equipment leaks ~~that are subject to 40 CFR Part 63, Subpart CC and~~ also subject to a subpart of Part 60 (NSPS) and/or Part 61 (NESHAPS) are only required to comply with 40 CFR Part 63, Subpart CC per the overlap at 63.640(p). Equipment leaks subject to Subpart CC are emissions of organic hazardous air pollutants from a pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, valve, or instrumentation system “in organic hazardous air pollutant service” as defined in 63.641. Vents from wastewater collection and conveyance systems (including, but not limited to wastewater drains, sewer vents, and sump drains), tank mixers, and sample valves on storage tanks are not equipment leaks subject to 40 CFR Part 63, Subpart CC. Part 63 (MACT).
- (2) ~~Part 40 CFR~~ Part 61, Subparts J and V and BAAQMD Regulation 11-7 apply only to the fugitive components in benzene service. These components are located only

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on the MRU Heartcut Stream located between the Heartcut Tower and the Heartcut Saturation Unit, upstream of the recycle stream (>10 weight. % benzene).

Equipment leaks are defined in 40 CFR Part 61, Subpart J as pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by 40 CFR Part 61, Subpart J. Those components subject to 40 CFR Part 61, Subpart J that overlap with 40 CFR Part 63, Subpart CC are only subject to 40 CFR Part 63, Subpart CC per the overlap at 63.640(p) (see Note 1)

(3) ~~Per 63.640(o)(1), equipment~~ 40 CFR Part 63, Subpart CC wastewater provisions require compliance with 40 CFR Part 61, Subpart FF for Group 1 wastewater streams as defined in 63.641. Per the overlap at 63.640(o)(1), any Group 1 wastewater streams that are managed in equipment that is also subject to Part 60 (NSPS) 40 CFR Part 60, Subpart QQQ ~~is~~ are only required to comply with 40 CFR 63 Subpart CC ~~Part 63 (MACT)~~ wastewater provisions. Those fugitive components subject to 40 CFR Part 61, Subpart FF or 40 CFR Part 60, Subpart QQQ that overlap with 40 CFR Part 63, Subpart CC are only subject to 40 CFR Part 63, Subpart CC per the overlap at 63.640(p) (see Note 1) ~~(Part 61 Subpart FF)~~.

(4) This table lists only those permit conditions related to fugitive sources or fugitive monitoring. See source-specific Table IV's for all other permit conditions for each source.

(5) Sources subject to BAAQMD 8-18, ~~BAAQMD 8-28,~~ and BAAQMD 11-7 are also subject to any applicable requirements of SIP 8-18, ~~SIP 8-28,~~ and SIP 11-7 when the SIP and BAAQMD versions of these rules are not the same.

(6) Sources subject to 40 CFR Part 60, Subpart GGG and GGGa are the group of equipment at petroleum refinery process units as defined in those regulations and compressors. Equipment means each valve, pump, pressure relief device, sampling connection system, open-ended valve or line, and flange or other connector in VOC service. For the purposes of recordkeeping and reporting only, compressors are considered equipment. Those components subject to 40 CFR Part 60, Subpart GGG or Subpart GGGa that overlap with 40 CFR Part 63, Subpart CC are only subject to 40 CFR Part 63, Subpart CC per the overlap at 63.640(p) (see Note 1)

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Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 18	Organic Compounds, Equipment Leaks (09/15/2004)		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-301	General	Y	
8-18-302	Valves	N	
8-18-303	Pumps and Compressors	N	
8-18-304	Connections	N	
8-18-304.1	Connection Leak Discovered by Operator	Y	
8-18-304.2	Connection Leak Discovered by APCO	N	
8-18-304.3	Connections Subject to 8-18-306	N	
8-18-305	Pressure Relief Devices	Y	
8-18-306	Non-repairable Equipment	N	
8-18-306.1	Non-repairable Equipment	N	
8-18-306.2	Non-repairable Equipment	N	
8-18-306.3	Non-Repairable Connections Count as Two Valves	N	
8-18-306.4	Requirements for Valves with Major Leaks ($\geq 10,000$ ppm)	N	
8-18-307	Liquid Leak	Y	
8-18-401	Inspection	N	
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternative Inspection Schedule	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	N	
8-18-503	Reports	N	
8-18-601	Analysis of Samples	Y	
8-18-602	Inspection Procedure	Y	
8-18-603	Determination of Control Efficiency	N	
8-18-604	Determination of Mass Emissions	N	
SIP· Regulation 8 Rule 18	Organic Compounds, Equipment Leaks (06/05/2003)		

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**Table IV – I1
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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and Compressors	Y	
8-18-304	Connections	Y	
8-18-304.2	Connection Leak Discovered by APCO	Y	
8-18-306	Non-repairable Equipment	Y	
8-18-306.1	Non-repairable Equipment	Y	
8-18-306.2	Non-repairable Equipment	Y	
8-18-401	Inspection	Y	
8-18-502	Records	Y	
8-18-603	Determination of Control Efficiency	Y	
8-18-604	Determination of Mass Emissions	Y	
BAAQMD Regulation 8 Rule 28	Organic Compounds, Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/2005)		
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	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-406	Monitoring System Demonstration Report	N	
8-28-407	Process Unit Identification Report	N	
8-28-502	Records	N	
8-28-503	Monitoring	N	
8-28-602	Determination of Control Efficiency	N	
SIP Regulation 8- Rule 28	Organic Compounds, Episodic Releases from Pressure Relief Devices (05/24/2004)		
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-304	Repeat Release—Pressure Relief Devices at Petroleum Refineries	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	
8-28-602	Determination of Control Efficiency	Y	

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**Table IV – I1
 Source-specific Applicable
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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 11 Rule 7·	Hazardous Pollutants, Benzene (05/15/1985)		
11-7-213	Leak Definition	N	
11-7-301	General	N	
11-7-305	Sampling Connecting Systems	N	
11-7-306	Open-Ended Valves or Lines	N	
11-7-306.1	Open-Ended Valves or Lines	N	
11-7-306.2	Open-Ended Valves or Lines	N	
11-7-307.1	Valves	N	
11-7-310	Delay of Repairs	N	
11-7-310.1	Delay of Repairs	N	
11-7-310.4	Delay of Repairs	N	
11-7-313	Alternative Compliance for Valves-Skip Period Detection and Repair	N	
11-7-401	Inspection	N	
11-7-403	Semiannual Reports	N	
11-7-501	Monitoring	N	
11-7-502.1.4	Records	N	
11-7-502.1.5	Records	N	
11-7-601	Measurement for Benzene	N	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-52</u>	<u>Subpart VV – Equipment Leaks of VOC in SOCOMI</u>	<u>Y</u>	
<u>10-59</u>	<u>Subpart GGG – Equipment Leaks of VOC in Petroleum Refineries</u>	<u>Y</u>	
<u>BAAQMD · Regulation 11 · Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart VV	NSPS Subpart VV for Equipment Leaks of VOC in SOCOMI before 11/7/2006 (12/14/200006/02/2008) <u>Applicability specified by 40 CFR Part 60, Subpart GGG or 40 CFR Part 63, Subpart CC</u>		
40 CFR 60.480	Applicability and Designation of Affected Facility	Y	
60.482-1	Standards: General	Y	
60.482-2	Standards: Pumps in light liquid service	Y	
60.482-3	Standards: Compressors	Y	
60.482-4	Standards: Pressure relief devices in gas/vapor service	Y	
60.482-5	Standards: Sampling connection systems	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.482-6	Standards: Open-ended valves or lines	Y	
60.482-7(a)	Standards	Y	
60.482-7(b)	Standards	Y	
60.482-7(c)(1)	Standards	Y	
60.482-7(d)(1)	Standards	Y	
60.482-7(e)	Standards	Y	
60.482-7(f)	Standards	Y	
60.482-7(h)	Standards	Y	
60.482-8	Standards: Pumps & Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges & Other Connectors	Y	
60.482-9(a)	Standards	Y	
60.482-9(b)	Standards	Y	
60.482-9(c)	Standards	Y	
60.482-9(d)	Standards	Y	
60.483-1	Alternative Standards for Valves-Allowable Percentage of Valves Leaking	Y	
60.483-2	Alternative Standards for valves - skip period leak detection and repair	Y	
60.485	Test Methods and Procedures	Y	
60.485(b)	Test Methods and Procedures: For standards in 60.482-1 through 60.482-10, 60.483 – use Method 21	Y	
60.485(c)	Test Methods and Procedures: For no detectable emission standards – use Method 21	Y	
60.485(d)	Test Methods and Procedures: Determination of VOC service	Y	
60.485(e)	Test Methods and Procedures: Determination of light liquid service	Y	
60.485(f)	Test Methods and Procedures: Representative samples required	Y	
60.485(h)	Test Methods and Procedures: Determine compliance for 60.483-1 or 60.483-2	Y	
60.486	Recordkeeping Requirements	Y	
60.486(a)(2)	Recordkeeping Requirements: Consolidated recordkeeping system	Y	
60.486(b)	Recordkeeping Requirements: Records for detected leaks; tag leaking equipment	Y	
60.486(c)	Recordkeeping Requirements: Records for detected leaks; information required in log	Y	
60.486(d)	Recordkeeping Requirements: Records of design requirements for closed vent systems and control devices for 60.482-10	Y	
60.486(e)	Recordkeeping Requirements: Records for equipment subject to 60.482-1 to 60.482-10	Y	
60.486(g)	Recordkeeping Requirements: Records for valves complying with	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	60.483-2		
60.486(h)	Recordkeeping Requirements: Records for pump and compressor barrier fluid system failure sensors	Y	
60.486(j)	Recordkeeping Requirements: Records for determinations that equipment is not in VOC service	Y	
60.487(a)	Reporting	Y	
60.487(b)	Reporting	Y	
60.487(c)	Reporting	Y	
60.487(d)	Reporting	Y	
40 CFR Part 60 Subpart VVa	NSPS Subpart VVa for Equipment Leaks of VOC in SOCOMI after 11/7/2006 (06/02/2008) Applicability specified by 40 CFR Part 60, Subpart GGGa		
60.482-1a	Standards: General	Y	
60.482-2a	Standards: Pumps in light liquid service	Y	
60.482-3a	Standards: Compressors	Y	
60.482-4a	Standards: Pressure relief devices in gas/vapor service	Y	
60.482-5a	Standards: Sampling connection systems	Y	
60.482-6a	Standards: Open-ended valves or lines	Y	
60.482-7a(a)	Standards	Y	
60.482-7a(b)	Standards	Y	
60.482-7a(c)(1)	Standards	Y	
60.482-7a(d)(1)	Standards	Y	
60.482-7a(e)	Standards	Y	
60.482-7a(f)	Standards	Y	
60.482-7a(h)	Standards	Y	
60.482-8a	Standards: Pumps & Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges & Other Connectors	Y	
60.482-9a(a)	Standards	Y	
60.482-9a(b)	Standards	Y	
60.482-9a(c)	Standards	Y	
60.482-9a(d)	Standards	Y	
60.483-1a	Alternative Standards for Valves-Allowable Percentage of Valves Leaking	Y	
60.483-2a	Alternative Standards for valves - skip period leak detection and repair	Y	
60.485a	Test Methods and Procedures	Y	
60.486a	Recordkeeping Requirements	Y	
60.485a(b)	Test Methods and Procedures: For standards in 60.482-1a through	Y	

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**Table IV – I1
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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	60.482-10a, 60.483a – use Method 21		
60.485a(c)	Test Methods and Procedures: For no detectable emission standards – use Method 21	Y	
60.485a(d)	Test Methods and Procedures: Determination of VOC service	Y	
60.485a(e)	Test Methods and Procedures: Determination of light liquid service	Y	
60.485a(f)	Test Methods and Procedures: Representative samples required	Y	
60.485a(h)	Test Methods and Procedures: Determine compliance for 60.483-1a or 60.483-2a	Y	
60.487a(a)	Reporting	Y	
60.487a(b)	Reporting	Y	
60.487a(c)	Reporting	Y	
60.487a(d)	Reporting	Y	
NSPS Title 40 CFR Part 60 Subpart GGG	NSPS GGG for Equipment Leaks of VOC in Petroleum Refineries before 11/7/2006 (10/17/2000) 06/02/2008		
60.590	Applicability and Designation of Affected Facility	Y	
60.590(a)(1)	Applicability: Affected facilities in petroleum refineries	Y	
60.590(a)(2)	Applicability: Compressor is an affected facility	Y	
60.590(a)(3)	Applicability: Group of all equipment within a process unit is an affected facility. Equipment is each valve, pump, pressure relief device, sampling connection system, open-ended valve or line, and flange or other connector in VOC service. For the purposes of recordkeeping and reporting only, compressors are considered equipment.	Y	
60.590(b)	Applicability: Construction, reconstruction, or modification commenced after January 4, 1983 and on or before November 7, 2006	Y	
60.590(c)	Applicability: Addition or replacement of equipment for process improvements without capital expenditure (as defined) is not modification	Y	
60.590(e)	Stay of standards (process unit definition)	Y	
60.591	Definitions	Y	
60.592	Standards	Y	
60.592(a)	Standards: Comply with Subpart VV (60.482-1 to 60.482-10)	Y	
60.592(b)	Standards: Options for compliance	Y	
60.592(b)(1)	Standards: Options for compliance: Comply with 60.483-1	Y	
60.592(b)(2)	Standards: Options for compliance: Comply with 60.483-2	Y	
60.592(c)	Standards: Allowance for equivalent means of emission reduction	Y	
60.592(d)	Standards: Comply with with Subpart VV (60.485) except per 60.593	Y	
60.592(e)	Standards: comply with with Subpart VV (60.486 and 60.487)	Y	
60.593	Exceptions	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.593(a)	Exceptions: Exceptions to Subpart VV	Y	
60.593(b)(1)	Exceptions: Exemption compressors in hydrogen service	Y	
60.593(b)(2)	Exceptions: Requirement for demonstration of hydrogen service	Y	
60.593(b)(3)(i)	Exceptions: Determination of hydrogen service – alternative methods	Y	
60.593(b)(3)(ii)	Exceptions: Revision of determination of hydrogen service	Y	
60.593(c)	Exceptions: Exemption for existing reciprocating compressor that becomes an affected facility	Y	
60.593(d)	Exceptions: Alternative to 60.485(e) definition of equipment in light liquid service	Y	
60.593(f)	Exceptions: Exemption for open-ended valves or lines containing asphalt	Y	
40 CFR Part 60 Subpart GGGa	NSPS GGG for Equipment Leaks of VOC in Petroleum Refineries after 11/7/2006 (6/2/2008)		
60.590a	Applicability and Designation of Affected Facility	Y	
60.590a(a)(1)	Applicability: Affected facilities in petroleum refineries	Y	
60.590a(a)(2)	Applicability: Compressor is an affected facility	Y	
60.590a(a)(3)	Applicability: Group of all equipment within a process unit is an affected facility. Equipment is each valve, pump, pressure relief device, sampling connection system, open-ended valve or line, and flange or other connector in VOC service. For the purposes of recordkeeping and reporting only, compressors are considered equipment.	Y	
60.590a(b)	Applicability: Construction, reconstruction, or modification commenced after January 4, 1983 and on or before November 7, 2006	Y	
60.590a(c)	Applicability: Addition or replacement of equipment for process improvements without capital expenditure (as defined) is not modification	Y	
60.590a(d)	Applicability: Facilities subject to subpart GGG are excluded from this subpart	Y	
60.590a(e)	Stay of standards (process unit definition)	Y	
60.591a	Definitions	Y	
60.592a	Standards	Y	
60.592a(a)	Standards: Comply with Subpart VVa (60.482-1a to 60.482-10a)	Y	
60.592a(b)	Standards: Options for compliance	Y	
60.592a(b)(1)	Standards: Options for compliance: Comply with 60.483-1a	Y	
60.592a(b)(2)	Standards: Options for compliance: Comply with 60.483-2a	Y	
60.592a(c)	Standards: Allowance for equivalent means of emission reduction	Y	
60.592a(d)	Standards: Comply with with Subpart VVa (60.485a) except per 60.593a	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.592a(e)	Standards: comply with with Subpart VVa (60.486a and 60.487a)	Y	
60.593a	Exceptions	Y	
60.593a(a)	Exceptions: Exceptions to Subpart VVa	Y	
60.593a(b)(1)	Exceptions: Exemption for compressors in hydrogen service	Y	
60.593a(b)(2)	Exceptions: Requirement for demonstration of hydrogen service	Y	
60.593a(b)(3)(i)	Exceptions: Determination of hydrogen service – alternative methods	Y	
60.593a(b)(3)(ii)	Exceptions: Revision of determination of hydrogen service	Y	
60.593a(c)	Exceptions: Exemption for existing reciprocating compressor that becomes an affected facility	Y	
60.593a(d)	Exceptions: Alternative to 60.485(e) definition of equipment in light liquid service	Y	
60.593a(f)	Exceptions: Exemption for open-ended valves or lines containing asphalt	Y	
60.593a(g)	Exceptions: Exemption from 60.482-11a for connectors in gas/vapor or light liquid service with requirement to comply with 60.482-8a	Y	
40 CFR Part 61 Subpart J	NESHAPS, Equipment Leaks of Benzene (12/14/2000) (Applies to equipment leaks in benzene service and only to components not also subject to 40 CFR Part 63, Subpart CC [connectors, surge control vessels, bottoms receivers])		
61.110	Applicability and designation of sources	Y	
61.110(a)	Applicability and designation of sources: Equipment in benzene service (>=10% benzene) - pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, surge control vessels, bottoms receivers, and control devices or systems required by this subpart.	Y	
61.110(d)	Applicability and designation of sources: Overlap with 40 CFR Part 60 – comply with 40 CFR Part 61, Subpart J rather than 40 CFR Part 60	Y	
61.111	Definitions	Y	
61.112	Standards	Y	
61.112(a)	Standards: Comply with 40 CFR Part 61, Subpart V	Y	
61.112(c)	Standards: Optional – alternative means of emission limitation	Y	
40 CFR Part 61 Subpart V	NESHAPS, Equipment Leaks (12/14/2000) Applicability specified in 40 CFR Part 61, Subpart J		
61.240	Applicability and designation of sources	Y	
61.240(a)	Applicability and designation of sources: Applies to sources in VHAP service	Y	
61.240(b)	Applicability and designation of sources: Applies for specific subparts of 40 CFR Part 61	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.240(c)	Applicability and designation of sources: Overlap with 40 CFR Part 60 – comply with 40 CFR Part 61, Subpart V rather than 40 CFR Part 60	Y	
61.240(d)	Alternative means of compliance	Y	
61.240(d)(4)	Alternative means of compliance – Rules referencing this subpart	Y	
61.241	Definitions	Y	
61.241-1	Standards: General	Y	
61.241-1(a)	Standards: General – comply with 61.242-1 to 61.242-11 except as provided in 61.243 and 61.244	Y	
61.241-1(b)	Standards: General – determination of compliance	Y	
61.241-1(c)	Standards: General – alternative means of emission limitation	Y	
61.241-1(d)	Standards: General – tags specific to this regulation required	Y	
61.241-1(d)	Standards: General – exemption for equipment in vacuum service	Y	
61.242-8	Standards: Connectors	Y	
61.242-8(a)	Standards: Connectors: Procedures when AVO evidence of leak detected	Y	
61.242-8(a)(1)	Standards: Connectors: Procedures when AVO evidence of leak detected; Monitor within 5 days by Method 21 and comply with (b) through (d)	Y	
61.242-8(a)(2)	Standards: Connectors: Procedures when AVO evidence of leak detected; Eliminate indication of potential leak	Y	
61.242-8(b)	Standards: Connectors: Leak if \geq 10,000 ppm per Method 21	Y	
61.242-8(c)(1)	Standards: Connectors: Repair leak no later than 15 days after detection	Y	
61.242-8(c)(2)	Standards: Connectors: First attempt at repair no later than 5 days after detection	Y	
61.242-8(d)	Standards: Connectors: Methods for first attempt at repair	Y	
61.242-9	Standards: Surge control vessels and bottoms receivers	Y	
61.242-10	Standards: Delay of repair	Y	
61.242-10(a)	Standards: Delay of repair – repair before end of next process unit shutdown	Y	
61.242-10(b)	Standards: Delay of repair – leaking equipment isolated from process	Y	
61.245	Test methods and procedures	Y	
61.245(b)	Test methods and procedures: Monitor for 61.242	Y	
61.245(d)	Test methods and procedures: VHAP service determination	Y	
61.246	Recordkeeping requirements	Y	
61.246(a)	Recordkeeping requirements: Consolidated recordkeeping system	Y	
61.246(b)	Recordkeeping requirements: Tag leaking equipment	Y	
61.246(c)	Recordkeeping requirements: Leak information required in log	Y	

IV. Source Specific Applicable Requirements

**Table IV – I1
 Source-specific Applicable
 Requirements Fugitive Components**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.345 (a)(1)(i)	Standards: Containers--no detectable emissions	Y	
61.343(a)(1)(i) (A)	Standards: Tanks; Fixed Roof--No detectable emissions >= 500 ppmv; annual inspection	Y	
61.347(a)(1)(i) (A)	Standards: oil-water separators--No detectable emissions >500 ppm; annual inspection	Y	
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 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(4)	Applicability and Designation of Affected Source—Equipment leaks. Equipment leaks are emissions of organic hazardous air pollutants from a pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, valve, or instrumentation system “in organic hazardous air pollutant service” as defined in this section. Vents from wastewater collection and conveyance systems (including, but not limited to wastewater drains, sewer vents, and sump drains), tank mixers, and sample valves on storage tanks are not equipment leaks.	Y	
63.640(p)	Applicability and Designation of Affected Source--Overlap of Subpart CC for equipment leaks	Y	
63.641	Definitions	Y	
63.648	Equipment Leak Standards	Y	
63.648(a)	Equipment Leak Standards--Existing sources comply with 40 CFR Part 60, Subpart VV and 63.648(b). New source comply with 40 CFR Part 63, Subpart H	Y	
63.648(a)(1)	Equipment Leak Standards--Existing sources: 40 CFR Part 60, Subpart VV applies only to organic HAP service.	Y	
63.648(a)(2)	Equipment Leak Standards—Calculation of percentage leaking equipment for Subpart VV may be done on process unit or sourcewide basis. Change in basis requires permit change	Y	
63.648(f)	Equipment Leak Standards— Exemption for r Reciprocating pumps in light liquid service	Y	
63.648(g)	Equipment Leak Standards— Exemption for c Compressors in hydrogen service	Y	
63.648(h)	Equipment Leak Standards--Record retention – 5 years	Y	
63.648(i)	Equipment Leak Standards—Exemption for reciprocating	Y	

IV. Source Specific Applicable Requirements

Table IV – I1
Source-specific Applicable
Requirements Fugitive Components

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	compressors		
63.654(d)	Reporting and Recordkeeping Requirements for Equipment Leaks	Y	
63.654(d)(1)	Reporting and Recordkeeping Requirements for Equipment Leaks; Comply with 60.486 and 60.487 except for 63.654(d)(1)(i)	Y	
63.654(d)(1)(i)	Reporting and Recordkeeping Requirements for Equipment Leaks; Comply with 60.486 and 60.487 except record required only of name but not signature of decision maker for delay of repair	Y	
63.654(d)(3)	Reporting and Recordkeeping Requirements for Equipment Leaks; Records of hydrogen service determinations	Y	
63.654(d)(4)	Reporting and Recordkeeping Requirements for Equipment Leaks; Records of leakless valves	Y	
63.654(d)(5)	Reporting and Recordkeeping Requirements for Equipment Leaks; Records of low use equipment	Y	
63.654(d)(6)	Reporting and Recordkeeping Requirements for Equipment Leaks; Records of exempt reciprocating pumps and compressors	Y	

Table IV – I2
Source-specific Applicable
Atmospheric Pressure Relief Devices Subject to Regulation 8, Rule 28

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 28	Organic Compounds, Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/2005)		
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	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-406	Monitoring System Demonstration Report	N	
8-28-407	Process Unit Identification Report	N	
8-28-502	Records	N	
8-28-503	Monitoring	N	
8-28-602	Determination of Control Efficiency	N	

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Source-specific Applicable
Atmospheric Pressure Relief Devices Subject to Regulation 8, Rule 28

<u>Applicable Requirement</u>	<u>Regulation Title or Description of</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>SIP Regulation 8 · Rule 28</u>	<u>Organic Compounds, Episodic Releases from Pressure Relief Devices (05/24/2004)</u>		
<u>8-28-303</u>	<u>Pressure Relief Devices at Existing Sources at Petroleum Refineries</u>	<u>Y</u>	
<u>8-28-304</u>	<u>Repeat Release - Pressure Relief Devices at Petroleum Refineries</u>	<u>Y</u>	
<u>8-28-401</u>	<u>Reporting at Petroleum Refineries and Chemical Plants</u>	<u>Y</u>	
<u>8-28-402</u>	<u>Inspection</u>	<u>Y</u>	
<u>8-28-403</u>	<u>Records</u>	<u>Y</u>	
<u>8-28-404</u>	<u>Identification</u>	<u>Y</u>	
<u>8-28-405</u>	<u>Prevention Measures Procedures</u>	<u>Y</u>	
<u>8-28-602</u>	<u>Determination of Control Efficiency</u>	<u>Y</u>	

Table IV - J3
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

<u>Applicable Requirement</u>	<u>Regulation Title or Description of</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of	N	

IV. Source Specific Applicable Requirements

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External Floating Roof Tanks, MACT Group 1
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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation		
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	NY	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	NY	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N	
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	NY	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	NY	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records — Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304	Requirements for External Floating Roofs; Floating roof requirements	<u>Y</u>	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements	<u>Y</u>	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging wells	<u>Y</u>	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	<u>Y</u>	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing.	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	<u>Y</u>	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	<u>Y</u>	
8-5-503	Portable Hydrocarbon Detector	Y	
NESHAPS Title 40 CFR Part 63 Subpart G	SOCMI HON G (12/21/2006) Requirements for tanks subject to 40 CFR Part 63, Subpart CC		
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External	Y	

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

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Compliance--External FR primary seal gap calculation method		
63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	
63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
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 Part 63.646(e)	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	

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

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
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, MACT Group 1
S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	

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Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304	Requirements for External Floating Roof Tanks	<u>N</u>	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	<u>N</u>	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
<u>8-5-320.5</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells</u>	<u>N</u>	
<u>8-5-320.5.1</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells</u>	<u>N</u>	
<u>8-5-320.5.3</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	<u>gauging wells-total secondary seal gap must include well gap</u>		
8-5-321	Primary Seal Requirements	NY	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y	
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	NY	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	

IV. Source Specific Applicable Requirements

Table IV - J4
Source-Specific Applicable Requirements
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S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Reports		
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records — Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP • Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	

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S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs: Floating roof requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging wells	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing.	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	

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Source-Specific Applicable Requirements
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S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable Hydrocarbon Detector	Y	
NESHAPS Title 40 <u>CFR</u> Part 63 Subpart G	SOCMI HON G (12/21/2006) <u>Requirements for tanks subject to 40 CFR 63 Subpart CC</u>		
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	
63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology-- External Floating Roof Operations, when not floating	Y	
63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine	Y	

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Table IV - J4
Source-Specific Applicable Requirements
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S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

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

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Table IV - J4
Source-Specific Applicable Requirements
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S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
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 Part 63.646(e)	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(a)	Storage Vessel Provisions--Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	

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Table IV - J4
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

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

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Table IV - J4
Source-Specific Applicable Requirements
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S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

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

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Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-63, S-73, S-75, S-76,
S-77, S-78, S-79, S-80, S-82
(TK-1711, TK-1733, TK-1736, TK-1737,
TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)

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

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons—no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons—make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	Y	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids—Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells—	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells—projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells—cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells—total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic shoe type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic shoe type seal requirements—geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic shoe type seal requirements—welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks >75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP—Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records—Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-321.3	Primary Seal Requirements; Metallic shoe type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 ppm as methane after degassing-	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
NESHAPS Title 40 Part 63 Subpart G	SOCMI HON G (12/21/2006)		
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(e)	Storage Vessel Provisions—Reference Control Technology—External floating roof	Y	
40 CFR 63.119(e)(1)	Storage Vessel Provisions—Reference Control Technology—External floating roof seals	Y	
40 CFR 63.119(e)(1)(i)	Storage Vessel Provisions—Reference Control Technology—External floating roof double seals required	Y	

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

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

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	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	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40 CFR 63.640(e)(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	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(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	
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	Reporting and Recordkeeping Requirements—Other reports—	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.654(h)(2)(ii)	Storage vessel notification of inspections.		
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	

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Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	Y	

IV. Source Specific Applicable Requirements

Table IV - J6
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N	
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	N	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	<u>N</u>	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	<u>Y</u>	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	<u>Y</u>	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Reports		
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	

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Source-Specific Applicable Requirements
External Floating Roof Tanks, [MACT Group 1](#)
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing.	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
NESHAPS Title 40 CFR Part 63 Subpart G	SOCMI HON G (12/21/2006) Requirements for tanks subject to 40 CFR Part 63, Subpart CC		
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--	Y	

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S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

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

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
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 Part 63.646(e)	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	

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S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

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

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External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

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

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External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

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

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Source-Specific Applicable Requirements
External Floating Roof Tank, MACT Group 1
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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of	N	

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Source-Specific Applicable Requirements
External Floating Roof Tank, MACT Group 1
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation; Not to exceed 7 days		
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
<u>8-5-320.5</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or</u>	<u>N</u>	

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External Floating Roof Tank, MACT Group 1
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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	gauging wells		
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N	
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	NY	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N	
8-5-322	Secondary Seal Requirements	NY	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero gap seal as defined in 8-5-322.5)	Y	
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 (becomes applicable when secondary seal is considered newly installed and subject to zero gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	NY	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
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,	Y	

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S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Satisfy requirements of 8-5-328		
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging wells	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing.	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	

IV. Source Specific Applicable Requirements

Table IV - J7
Source-Specific Applicable Requirements
External Floating Roof Tank, MACT Group 1
S-97 (TK-1776)

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	
NESHAPS Title 40 CFR Part 63 Subpart G	SOCMI HON G (12/21/2006) Requirements for tanks subject to 40 CFR Part 63, Subpart CC		
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions . Reference Control Technology-- External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required	Y	
63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements	Y	
63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements	Y	
63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid)	Y	
63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology-- External floating roof exception	Y	
63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology-- External Floating Roof Operations, when not floating	Y	
63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
External Floating Roof Tank, [MACT Group 1](#)
S-97 (TK-1776)

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

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
External Floating Roof Tank, [MACT Group 1](#)
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
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 Part 63.646(e)	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(a)	Storage Vessel Provisions--Group 1	Y	
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP- method 18 to resolve disputes	Y	
63.646(c)	Storage Vessel Provisions--40 CFR Part 63 exclusions for storage vessels	Y	
63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	

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Source-Specific Applicable Requirements
External Floating Roof Tank, MACT Group 1
S-97 (TK-1776)

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

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Source-Specific Applicable Requirements
External Floating Roof Tank, MACT Group 1
S-97 (TK-1776)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
BAAQMD Condition # 10633 Part 1	The total daily throughput of product from S-97 shall be recorded in a District approved log. This record shall be retained for a period of at least five years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: 2-6-503]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	NY	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	YN	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	N	
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N	
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	N	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	N	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
<u>8-5-304</u>	<u>Requirements for External Floating Roofs; Floating roof requirements</u>	<u>Y</u>	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
<u>8-5-320</u>	<u>Tank Fitting Requirements</u>	<u>Y</u>	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
<u>8-5-320.5</u>	<u>Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks</u>	<u>Y</u>	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
<u>8-5-321</u>	<u>Primary Seal Requirements</u>	<u>Y</u>	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing.	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
<u>8-5-401</u>	<u>Inspection Requirements for External Floating Roof Tanks</u>	<u>Y</u>	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records	<u>Y</u>	
8-5-503	Portable Hydrocarbon Detector	Y	
NSPS Title 40 CFR Part 60 Subpart K	NSPS Subpart K for Petroleum Liquids Storage Vessels Constructed between `73-`78 (10/17/2000)		
60.110(a)	Applicability and Designation of Affected Facility; Affected facility	Y	
60.110(c)(2)	Applicability and Designation of Affected Facility-->65,000 gal after 6/11/1973 and before 5/19/1978.	Y	
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	
60.113(a)	Monitoring of Operations--Petroleum liquid storage records.	Y	
60.113(b)	Monitoring of Operations--Determination of TVP by API method	Y	
NESHAPS Title 40 CFR Part 63 Subpart G	SOCMI HON G (12/21/2006) Requirements for tanks subject to 40 CFR Part 63, Subpart CC		
63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
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 Part 63.646(e)	Y	
63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
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	

IV. Source Specific Applicable Requirements

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

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

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

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

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 Source-Specific Applicable Requirements
 NSPS Subpart Kb External Floating Roof Tank
 S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)**

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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	

IV. Source Specific Applicable Requirements

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Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or	Y	

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Source-Specific Applicable Requirements
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S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	gauging wells--cover, seal, or lid		
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
<u>8-5-320.5</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells</u>	<u>N</u>	
<u>8-5-320.5.1</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells</u>	<u>N</u>	
<u>8-5-320.5.3</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap</u>	<u>Y</u>	
8-5-321	Primary Seal Requirements	N	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	

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Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-401	Inspection Requirements for External Floating Roof Tanks	N Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records — Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	

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Source-Specific Applicable Requirements
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S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
<u>8-5-304</u>	<u>Requirements for External Floating Roofs; Floating roof requirements</u>	<u>Y</u>	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
<u>8-5-320</u>	<u>Tank Fitting Requirements</u>	<u>Y</u>	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
<u>8-5-320.5</u>	<u>Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper</u>	<u>Y</u>	
<u>8-5-321</u>	<u>Primary Seal Requirements</u>	<u>Y</u>	
8-5-321.3	Primary seal requirements; Metallic shoe type seal requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
<u>8-5-401</u>	<u>Inspection Requirements for External Floating Roof Tanks</u>	<u>Y</u>	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	

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S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-17</u>	<u>Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.	Y	
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	
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	

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

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S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

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

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S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
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	
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(i)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(vi)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
BAAQMD	For S-207 Only		

IV. Source Specific Applicable Requirements

Table IV - J9
Source-Specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tank
S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Condition # 10797			
Part 1	The Owner/Operator shall limit the total release of emissions from this S-207 storage tank to no more than 4.62 tons of Total fugitive POC emissions in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
Part 4	TK-1740 (S-207) material storage limits. (Cumulative Increase, BACT, Offsets, Toxics) The Owner/Operator shall store only mogas/components in the S207 External Roof Storage Tank. [Basis: Cumulative Increase, BACT, Offsets, Toxics]	Y	
Part 6	TK-1740 (S-207) throughput limit. (Cumulative Increase) The Owner/Operator shall limit the total throughput of mogas/components to no more than 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
Part 7	TK-1740 (S-207) recordkeeping (Cumulative Increase) The Owner/Operator shall record the total daily throughput of mogas/component withdrawn from S-207 Storage Tank in a District approved log. This record shall be retained for a period of at least five years from date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]	Y	
<u>BAAQMD Condition 20820</u>	<u>For S-1047 and S-1048 Only</u>		
<u>Part 23</u>	<u>VIP emission limits triggered when 135,000 BBL/day of crude oil processed at S-1006 or when storage tanks (S-57 through S-62, S-1047, S-1048) exceed combined total throughput of 141.5 kBBL/day (Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 27</u>	<u>Daily throughput limits (Recordkeeping)</u>	<u>Y</u>	
<u>Part 29</u>	<u>NMOC/POC offset requirements (Offsets)</u>	<u>Y</u>	
<u>Part 30</u>	<u>Comply with 40 CFR Part 60, Subpart Kb and BAAQMD Regulation 8-5 (BACT, NSPS)</u>	<u>Y</u>	
<u>Part 31</u>	<u>Store only specified materials (Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 32</u>	<u>Combined material throughput limit (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 33</u>	<u>Daily throughput records (Recordkeeping)</u>	<u>Y</u>	

NOTE: Table for Source S-112 relocated and renumbered as Table IV-J35 to place it with other Benzene Wastewater tanks.

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-305	Requirements for Internal Floating roofs	N	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N	
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.3.2	Floating Roof Tank Fitting Requirements; IFR Inaccessible fittings	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	N	
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N	
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	gauging wells-total secondary seal gap must include well gap		
8-5-321	Primary Seal Requirements	N Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Reports		
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting requirements	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements: Slotted sampling or gauging wells	Y	
8-5-320.5.2	Tank Fitting Requirements: Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements: Metallic-shoe-type seal requirements	Y	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(e)	Applicability and Designation of Affected Source--Storage vessel	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	source association--Determine if storage vessel is part of a process unit.		

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-305	Requirements for Internal Floating roofs	NY	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N	
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N	
8-5-320	Floating Roof Tank Fitting Requirements	NY	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.3.2	Floating Roof Tank Fitting Requirements; IFR Inaccessible fittings	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	YN	
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells		
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	NY	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	<u>N</u>	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	<u>Y</u>	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	<u>Y</u>	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	NY	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	NY	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP • Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks. Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	

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
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-305	Requirements for Internal Floating roofs	NY	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N	
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N	
8-5-320	Floating Roof Tank Fitting Requirements	NY	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	YN	
<u>8-5-320.3.2</u>	<u>Floating Roof Tank Fitting Requirements; IFR Inaccessible fittings</u>	<u>Y</u>	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	YN	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y N	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y N	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y N	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	N	
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	N	
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	N Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	

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
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	NY	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	NY	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	

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
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
<u>8-5-305</u>	<u>Requirements for Internal Floating roofs</u>	<u>Y</u>	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
<u>8-5-320</u>	<u>Tank Fitting Requirements</u>	<u>Y</u>	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
<u>8-5-320.5</u>	<u>Tank Fitting Requirements: Floating roof tanks. Slotted sampling or gauging well requirements in floating roof tanks</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Tank Fitting Requirements: Floating roof tanks. Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper</u>	<u>Y</u>	
<u>8-5-321</u>	<u>Primary Seal Requirements</u>	<u>Y</u>	
<u>8-5-321.3</u>	<u>Primary Seal Requirements: Metallic-shoe-type seal requirements</u>	<u>Y</u>	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
<u>8-5-402</u>	<u>Inspection Requirements for Internal Floating Roof Tanks</u>	<u>Y</u>	

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
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-17</u>	<u>Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.	Y	
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	
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating	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
	roof openings covers		
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y	
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	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
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
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	
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
BAAQMD Condition #9296			
Part C1	Annual throughput limit ethanol (TK-1820) (Cumulative Increase, BACT, Offsets)For the S-210 Methanol/ethanol Tank: The total throughput of product from S-210 shall not exceed 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y	
Part C2	Total POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, shall not exceed 0.87 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y	
Part C5	Ethanol/methanol storage restricted to TK-1820 (S-210). (Cumulative Increase, offsets, toxics)The S-210 internal floating roof tank shall only store methanol/ethanol unless written	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
	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]		
Part C6	Recordkeeping ethanol/methanol tank TK-1820 (S-210). (Cumulative Increase)The total monthly throughput of methanol/ethanol withdrawn from the S-210 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least 5 years from date of entry. It shall be kept on site and made available to District staff upon request. [Basis: Cumulative Increase]	Y	

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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	N	

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
	Self report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency $\geq 95\%$	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(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 (TK-1713, TK-1717)

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 (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
BAAQMD Condition #20762			
Part 1	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117) Verify true vapor pressure (8-5-117)	Y	
Part 2	Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5) Comply with Regulation 8-5 when switching different service	Y	
Part 3	Recordkeeping requirements (8-5-117)	Y	

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; MACT Exempt (Mixed C5s)
S-124 (TK-1735)

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

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; MACT Exempt (Mixed C5s)
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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	

IV. Source Specific Applicable Requirements

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; MACT Exempt (Mixed C5s)
S-124 (TK-1735)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency $\geq 95\%$	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for devices vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	

IV. Source Specific Applicable Requirements

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; MACT Exempt (Mixed C5s)
S-124 (TK-1735)

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	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	

IV. Source Specific Applicable Requirements

Table IV - J16
Source-Specific Applicable Requirements
Fixed Roof Tank with Vapor Recovery to Fuel Gas; MACT Exempt (Mixed C5s)
S-124 (TK-1735)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency $\geq 95\%$	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	

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
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	

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
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD Condition #7559			
Part 1	<u>Abatement requirements spent acid tank (TK-2712) (Cumulative Increase)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]</u>		

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
MACT Exempt, NSPS Subpart Kb Fixed Roof Pentane 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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring	N	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
MACT Exempt, NSPS Subpart Kb Fixed Roof Pentane 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
	Program option		
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; PV valve setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
MACT Exempt, NSPS Subpart Kb Fixed Roof Pentane 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	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
MACT Exempt, NSPS Subpart Kb Fixed Roof Pentane 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
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-17	Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels	Y	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.	Y	
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for tanks >= 75 cu m and maximum TVP >= 76.6 kPa	Y	
60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option	Y	
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
MACT Exempt, NSPS Subpart Kb Fixed Roof Pentane 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
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(e)(1)	Monitoring of Operations; TVP Determination Criteria	Y	
60.116b(e)(2)(i)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products by API method	Y	
60.116b(e)(2)(ii)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products other than API method	Y	
60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
BAAQMD Condition # 10574	<u>Superseded by Condition 24197 Upon Startup of S-1061 and S-1062</u>		
Part 1	<p>Any new CFP pumps 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)]</p> <p>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.</p> <p>b) equipped with a "canned" pump.</p> <p>e) equipped with a magnetically driven pump.</p>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 4	All CFP hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [(Basis: BACT)]	Y	
Part 5	Except as required by Condition number 4, CFP all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) teflon packed valves or (5) equivalent. [(Basis: (BACT))]	Y	
Part 7	All CFP flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic based gaskets are not compatible. [(Basis: (BACT, Offsets, Cumulative Increase, Toxics))]	Y	
Part 8	All new CFP hydrocarbon centrifugal compressors installed as part of the CFP shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All reciprocating compressors installed in hydrocarbon service as part of the CFP shall be vented to a control device having at least a 95% control efficiency. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR 60, Subpart GGG. [(BACT, Offsets, Cumulative Increase, Toxics, NSPS)]	Y	
Part 10	Deleted.		
Part 11	All process drains installed as part of the CFP shall be fitted with a "P", trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [(Basis: CFP process drains (BACT))]	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [(Basis: (Cumulative Increase))]	Y	
Part 42	S-227 abatement requirements (Cumulative Increase, Offsets, Toxics)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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]	Y	
Part 44	S227 material storage limits. (Cumulative Increase, Offsets, BACT, Toxics)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	
Part 45	S227 control device requirements. (RACT)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	
<u>BAAQMD Condition #24197</u>	<u>Supersedes Condition 10574</u>		<u>Upon Startup of S-1061 and S-1062</u>
<u>Part 1</u>	<u>Pumps in light liquid hydrocarbon service (Cumulative Increase, Offsets, Toxics)</u>	<u>Y</u>	
<u>Part 4</u>	<u>Hydrocarbon flow control valves (Basis: BACT)</u>	<u>Y</u>	
<u>Part 5</u>	<u>All other hydrocarbon valves greater than 2 inches (BACT)</u>	<u>Y</u>	
<u>Part 7</u>	<u>Flanges installed in the piping systems (BACT, Offsets, Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 8</u>	<u>Hydrocarbon centrifugal compressors (BACT, Offsets, Cumulative Increase, Toxics, NSPS)</u>	<u>Y</u>	
<u>Part 11</u>	<u>Process drains (BACT)</u>	<u>Y</u>	
<u>Part 12</u>	<u>Total fugitive POC emissions from all new and modified equipment (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 42</u>	<u>S-227 abatement requirements (Cumulative Increase,</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - J18
Source-Specific Applicable Requirements
MACT Exempt, NSPS Subpart Kb Fixed Roof Pentane 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
	Offsets, Toxics		
Part 43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]	Y	
Part 44	S227 material storage limits. (Cumulative Increase, Offsets, BACT, Toxics)	Y	
Part 45	S227 control device requirements. (RACT)	Y	

Table IV - J19
Source-Specific Applicable Requirements
Exempt Tanks, MACT Group 2
External Floating Roof Tanks
S-64, S-66 (TK-1712, TK-1714)
Fixed Roof Tanks
S-93, S-94, S-95, S-96, S-99, S-100, S-106, S-107, S-109, S-111, S-116, S-118,
S-119, S-140, S-145
(TK-1772, TK-1773, TK-1774, TK-1775, TK-1778, TK-1779, TK-1797, TK-1798,
TK-1802, TK-1804, TK-1809, TK-1811, TK-1812, TK-1204, TK-1201)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J19
Source-Specific Applicable Requirements
Exempt Tanks, MACT Group 2
External Floating Roof Tanks
S-64, S-66 (TK-1712, TK-1714)

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.641	Definitions:	Y	
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
BAAQMD Condition #20762			
Part 1	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117) Verify true vapor pressure (8-5-117)	<u>Y</u>	
Part 2	Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5) Comply with Regulation 8-5 when switching different service	<u>Y</u>	
Part 3	Recordkeeping requirements (8-5-117)	<u>Y</u>	

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 (-10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (0-6/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	
BAAQMD Condition #20762			
Part 1	<u>Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117)Verify true vapor pressure (8-5-117)</u>	<u>Y</u>	
Part 2	<u>Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5)Comply with Regulation 8-5 when switching different service</u>	<u>Y</u>	
Part 3	Recordkeeping <u>requirements</u> (8-5-117)	<u>Y</u>	

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-108 (TK-1801), S-110 (TK-1803)

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

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-108 (TK-1801), 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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	

IV. Source Specific Applicable Requirements

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-108 (TK-1801), S-110 (TK-1803)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of abatement efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-108 (TK-1801), S-110 (TK-1803)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Compliance before notification		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.641	Definitions:	Y	
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - J21
Source-Specific Applicable Requirements
Fixed Roof Tank with Submerged Fill & P/V
S-108 (TK-1801), S-110 (TK-1803)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks; no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP—Retain 24 months	Y	
8-5-501.3	Records; Retention	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of abatement efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40 CFR 63.640(e)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions	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 when in MACT Group 2 service	Y	

Table IV - J23
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V
S-113, S-114, S-115, S-117, S-120, S-122, S-123
(TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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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
(TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794)

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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed	N	

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
(TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks		
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of abatement efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations;	N	

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
(TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	EPA Method 21 Instrument		
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	

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
(TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

~~**Table IV - J24**~~
~~**Source-Specific Applicable Requirements**~~
~~**Fixed Roof Tank < 10 Kgals with Submerged Fill; 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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks; no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP— Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Written notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
BAAQMD Condition # 13045			
Part 1	The throughput of corrosion inhibitor at the Corrosion Inhibitor Tank (S-143) shall not exceed 15,000 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
Part 2	To demonstrate compliance with Condition #1, the throughput of corrosion inhibitor at S-143 shall be recorded monthly in a District approved log. These records shall be kept on-site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	

Table IV – J26
Source-Specific Applicable Requirements
Miscellaneous Equipment: Dock Sump; 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 2	Organic Compounds, Miscellaneous Operations (06/15/1994)		

IV. Source Specific Applicable Requirements

Table IV – J26
Source-Specific Applicable Requirements
Miscellaneous Equipment: Dock Sump; with Permit Conditions
S-239 (TK-1918)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 18422			
Part 1	Owner/Operator shall limit the total liquid throughput to no more than 360,000 gallons during any consecutive twelve-month period. (Basis: Cumulative Increase)	Y	
Part 2	The Owner/Operator shall comply with all requirements of Regulation 8-2. (Basis: Regulation 8-2-301)	Y	
Part 3	In order to demonstrate compliance with the part 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD- Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations: limit emission to less than or equal to 15 lbs/day and 300 PPM total carbon	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD-	Organic Compounds, Storage of Organic Liquids (10/18/2006)		

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
Regulation 8 Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed	N	

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
	Tanks		
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements: Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements: BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements: Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements: Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements: Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices: pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices: PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional): Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records: Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records: Retention	N	
8-5-501.4	Records: New PV setpoints	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations: EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations: Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents: IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents: TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents: VOC	N	

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
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure0	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves: Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves: Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
BAAQMD Condition #9584			
Part 1	Throughput limit TK-2902 (S-158) perchloroethylene. (Cumulative Increase, toxics) The throughput at the storage tank S-158 shall not exceed 30,000 gallons of perchloroethylene during any rolling 12 consecutive month period. [Basis: Cumulative Increase, toxics]	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
Part 2	Recordkeeping TK-2902 (S-158) perchloroethylene. (Cumulative Increase) To demonstrate compliance with Condition #1, monthly throughput record of perchloroethylene at S-158 shall be maintained in a District approved log. These records shall be kept on-site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: cumulative increase]	Y	
BAAQMD Condition #20762			
Part 1	Verify true vapor pressure (8-5-117)	Y	
Part 2	Comply with Regulation 8-5 when switching different service	Y	
Part 3	Recordkeeping (8-5-117)	Y	

Table IV - J28
Source-Specific Applicable Requirements
Pressure Tank; Nitrogen Blanket; 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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	N	

IV. Source Specific Applicable Requirements

Table IV - J28
Source-Specific Applicable Requirements
Pressure Tank; Nitrogen Blanket; 10 Kgal Capacity S-1013 (D-2720)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Self report if out of compliance during exemption period		
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-307.2	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tank working pressure	N	
8-5-307.3	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tanks and blanketed tanks PRD requirements	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	

IV. Source Specific Applicable Requirements

Table IV - J28
Source-Specific Applicable Requirements
Pressure Tank; Nitrogen Blanket; 10 Kgal Capacity S-1013 (D-2720)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	

IV. Source Specific Applicable Requirements

Table IV - J28
Source-Specific Applicable Requirements
Pressure Tank; Nitrogen Blanket; 10 Kgal Capacity S-1013 (D-2720)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

Table IV - J29
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks < 10 Kgals
S-121, S-185 (D-807, NO TAG)
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 (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2004)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Condition #20762			
Part 1	<u>Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117) Verify true vapor pressure (8-5-117)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - J29
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks < 10 Kgals
S-121, S-185 (D-807, NO TAG)
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
Part 2	Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5) Comply with Regulation 8-5 when switching different service	<u>Y</u>	
Part 3	Recordkeeping requirements (8-5-117)	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-17	Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.		
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.641	Definitions	Y	
63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP- method 18 to resolve disputes	Y	
63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels when in MACT Group 2 service	Y	
BAAQMD Condition #20762			
Part 1	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117)	Y	
Part 2	Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5)	Y	
Part 3	Recordkeeping requirements (8-5-117)	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 (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (6/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
<u>BAAQMD Condition #20762</u>			
<u>Part 1</u>	Verify true vapor pressure (8-5-117)	Y	
<u>Part 2</u>	Comply with Regulation 8-5 when switching different service	Y	
<u>Part 3</u>	Recordkeeping (8-5-117)	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 Rule 1	Particulate Matter; <u>General Requirements and Visible Emissions</u> (12/19/1990<u>12/05/2007</u>)		
6-1-301	Ringelmann No. 1 Limitation	YN	
6-1-310	Particulate Weight Limitation	NY	
6-1-401	<u>Appearance of Emissions</u>	N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission</u>	N	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
6-301	<u>Ringelmann No. 1 Limitation</u>	Y	
6-310	<u>Particulate Weight Limitation</u>	Y	
6-401	<u>Appearance of Emissions</u>	Y	
6-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity</u>	Y	

IV. Source Specific Applicable Requirements

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
	Instruments and Appraisal of Visible Emission		
BAAQMD Condition 20820	Source S-236 Only		
Part 44	Sulfur storage pit (S-157) and product tank (S-236) throughput limits (Cumulative increase, odors)	<u>Y</u>	
Part 45	Daily material throughput records (Recordkeeping)	<u>Y</u>	

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-81 (TK-1753), S-85 (TK-1757), S-104 (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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	N	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
<u>8-5-320.5</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells</u>	<u>N</u>	
<u>8-5-320.5.1</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells</u>	<u>N</u>	
<u>8-5-320.5.3</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap</u>	<u>Y</u>	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 (becomes applicable when secondary seal is considered newly installed and subject to zero gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-401	Inspection Requirements for External Floating Roof Tanks	N Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	N Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records <u>—</u> Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

Table IV - J32
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Written notice of completion not required		
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
<u>8-5-304</u>	<u>Requirements for External Floating Roofs; Floating roof requirements</u>	<u>Y</u>	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
<u>8-5-320</u>	<u>Tank Fitting Requirements</u>	<u>Y</u>	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
<u>8-5-320.5</u>	<u>Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper</u>	<u>Y</u>	
<u>8-5-321</u>	<u>Primary Seal Requirements</u>	<u>Y</u>	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
<u>8-5-401</u>	<u>Inspection Requirements for External Floating Roof Tanks</u>	<u>Y</u>	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks;	Y	

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S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Primary and Secondary Seal Inspections		
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-17</u>	<u>Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels</u>	<u>Y</u>	
<u>BAAQMD : Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NSPS Title 40_CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y	
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to	Y	

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

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 40 CFR Part 60.112b(a)(2)	Y	
61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR Part 60.115b	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.647(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	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

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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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-304	Requirements for External Floating Roof Tanks	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N	
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N	
8-5-304.6	Requirements for External Floating Roofs; pontoons – no leaks	N	
8-5-304.6.1	Requirements for External Floating Roofs; pontoons – make gas tight if leaking	N	
8-5-304.6.2	Requirements for External Floating Roofs; pontoons repair all leaks at next removal from service	N	
8-5-320	Floating Roof Tank Fitting Requirements	Y	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells –	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells – projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells – cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells – total secondary seal gap must include well gap	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary Seal Requirements; Resilient toroid-type seal-gap requirements	N	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 (becomes applicable when secondary seal is considered newly installed and subject to zero gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-412	Monitoring of Leaking Pontoons	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP – Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records – Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP – Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320.2	Tank fitting requirements—Floating roof tanks, Gasketed covers, seals, lids—Projection below surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements—Floating roof tanks, Gasketed covers, seals, lids—	Y	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-503	Portable hydrocarbon detector	Y	
NSPS Title 40 -Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
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	

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

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

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

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	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks Vapor pressure tests other approved method	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
40 CFR 61.343(a)	Standards: Tanks; Benzene containing wastes	Y	
40 CFR 61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 40 CFR 60.112b(a)(2)	Y	
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40 CFR 63.640(e)(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 – J33
Source-Specific Applicable Requirements
External Floating Roof Tanks – Benzene Wastewater
S-104
(TK-1795)

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 63.654(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 (e)(2)(ii) of 63.640.	Y	

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-305	Requirements for Internal Floating roofs	N	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N	
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.3.2	Floating Roof Tank Fitting Requirements; IFR Inaccessible fittings	Y	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	<u>gauging wells</u>		
<u>8-5-320.5.1</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells</u>	<u>N</u>	
<u>8-5-320.5.3</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap</u>	<u>Y</u>	
8-5-321	Primary Seal Requirements	N	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	N	
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; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof 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-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320	Tank Fitting Requirements	<u>Y</u>	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks. Slotted sampling or gauging well requirements in floating roof tanks	<u>Y</u>	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks. Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	<u>Y</u>	
8-5-321	Primary Seal Requirements	<u>Y</u>	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	<u>Y</u>	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-17	Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels	<u>Y</u>	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	<u>Y</u>	
NSPS Title	NSPS Subpart Kb for Tanks (10/15/2003)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart Kb			
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y	
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y	
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	floating		
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 40 CFR Part 60.112b(a)(1)	Y	
61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR Part 60.115b	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.647(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	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

**Table IV – J35
 Source-Specific Applicable Requirements
 Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
 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 (10/18/2006)		

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-301	Storage Tank Control Requirements	N	

IV. Source Specific Applicable Requirements

Table IV – J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-305	Requirements for Internal Floating roofs	N	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N	
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N	
8-5-320	Floating Roof Tank Fitting Requirements	N	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N	
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y	
<u>8-5-320.3.2</u>	<u>Floating Roof Tank Fitting Requirements; IFR Inaccessible fittings</u>	<u>Y</u>	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface	Y	
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid	Y	
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap	Y	
<u>8-5-320.5</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells</u>	<u>N</u>	
<u>8-5-320.5.1</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface</u>	<u>Y</u>	
<u>8-5-320.5.2</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells</u>	<u>N</u>	
<u>8-5-320.5.3</u>	<u>Floating Roof Tank Fitting Requirements; Slotted sampling or</u>	<u>Y</u>	

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Table IV – J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	<u>gauging wells-total secondary seal gap must include well gap</u>		
8-5-321	Primary Seal Requirements	NY	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	NY	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	NY	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	

IV. Source Specific Applicable Requirements

Table IV – J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
<u>8-5-305</u>	<u>Requirements for Internal Floating roofs</u>	<u>Y</u>	
8-5-305.5	Requirements for Internal Floating roofs; 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-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-320	Tank Fitting Requirements	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks. Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks. Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-17	Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		

IV. Source Specific Applicable Requirements

Table IV – J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y	
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y	
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	

IV. Source Specific Applicable Requirements

Table IV – J35
Source-Specific Applicable Requirements
Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		

IV. Source Specific Applicable Requirements

**Table IV – J35
 Source-Specific Applicable Requirements
 Internal Floating Roof Tank without Secondary Seal; Benzene Wastewater
 S-112 (TK-1805)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 40 CFR Part 60.112b(a)(1)	Y	
61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR Part 60.115b	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.647(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	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

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

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

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD- Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	is subject to BAAQMD 8-18		
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems; Abatement efficiency $\geq 95\%$	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks; no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	NY	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Retain 24 months		
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	certification before commencement of work		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof No openings	Y	
40 CFR	Standards: Tanks; Closed vent systems are subject to 61.349	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.343(a)(1)(ii)			
40 CFR 61.343(e)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed Vent Systems and Control Devices--Closed vent systems-- No detectable emissions >= 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
40 CFR 61.349(e)	Standards: Closed Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(e)	Y	
40 CFR 61.354(e)	Monitoring of Operations; Closed vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(e)(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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40 CFR 63.640(e)(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(e)(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	
<u>BAAQMD Condition #11879</u>			
<u>Part 1</u>	<u>Abatement Requirements—carbon canisters and/or thermal oxidizer. (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>Part 9</u>	<u>Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)</u>	<u>Y</u>	
<u>BAAQMD Condition # 11888</u>			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 1	The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5% at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: Monitoring]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	This source shall be abated by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: RACT]	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 11	<p>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]</p>	Y	
Part 12	<p>To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating.</p> <ul style="list-style-type: none"> 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	
Part 13	<p>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]</p>	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

Table IV--J37
Source-Specific Applicable Requirements
Fixed Roof Tank with Closed Vent System & Two Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	

IV. Source Specific Applicable Requirements

Table IV--J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two-Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement; Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	

IV. Source Specific Applicable Requirements

Table IV-- J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP-- Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	

IV. Source Specific Applicable Requirements

Table IV-- J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two-Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP- Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	

IV. Source Specific Applicable Requirements

Table IV-- J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
40-CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40-CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof with closed vent system	Y	
40-CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof No openings	Y	
40-CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed vent systems are subject to 61.349	Y	
40-CFR 61.343(e)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40-CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40-CFR 61.349(a)	Standards: Closed Vent Systems and Control Devices; Applicability	Y	
40-CFR 61.349(a)(1)(i)	Standards: Closed Vent Systems and Control Devices-Closed vent systems--No detectable emissions >= 500 ppmv; annual inspection	Y	
40-CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed vent system	Y	
40-CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas tight	Y	
40-CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40-CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40-CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40-CFR 61.349(b)	Operated at all times.	Y	
40-CFR 61.349(e)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40-CFR 61.349(e)(2)	Standards: Closed Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	

IV. Source Specific Applicable Requirements

Table IV-- J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40-CFR-61.349(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(e)	Y	
40-CFR-61.354(e)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40-CFR 61.354(e)(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 gaseal/valve positions monthly	Y	
40-CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40-CFR 63.640(e)(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(e)(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(e)	Owners/operators required under subpart FF of 40-CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	

IV. Source Specific Applicable Requirements

Table IV--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-63.654(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 (c)(2)(ii) of 63.640.	Y	
BAAQMD Condition # 11879			
Part 1	The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. (Basis: Temperature Monitoring)	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	

IV. Source Specific Applicable Requirements

Table IV--J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 9	This source shall be abated by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer in at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-34 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
Part 12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] f. Daily NMHC emission rate in pounds per day. g. Daily NMHC emission rate, as averaged over one month, in pounds per day. h. Daily flow rate and outlet NMHC concentration. i. Carbon canister changeout date. j. Total volume of gas recorded between carbon canister changeout.	Y	

IV. Source Specific Applicable Requirements

Table IV-- J37
Source-Specific Applicable Requirements
Fixed-Roof Tank with Closed Vent System & Two Control Devices--Benzene
Wastewater
S-150 (TK-2051)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks with Closed Vent System
& Carbon Control Device--
S-193, S-196 (TK-2027, TK-2077)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	N	

IV. Source Specific Applicable Requirements

Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks ~~with Closed Vent System~~
~~& Carbon Control Device-~~
S-193, S-196 (TK-2027, TK-2077)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tank in compliance at time of notification		
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	

IV. Source Specific Applicable Requirements

Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks ~~with Closed Vent System~~
~~& Carbon Control Device-~~
S-193, S-196 (TK-2027, TK-2077)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-	N	

IV. Source Specific Applicable Requirements

Table IV - J38
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks ~~with Closed Vent System~~
~~& Carbon Control Device-~~
S-193, S-196 (TK-2027, TK-2077)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	306.1, 8-5-307.3		
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	

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Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks ~~with Closed Vent System~~
~~& Carbon Control Device-~~
S-193, S-196 (TK-2027, TK-2077)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-17</u>	<u>Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels</u>	<u>Y</u>	
<u>BAAQMD - Regulation 11 - Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.	Y	
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	

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Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks ~~with Closed Vent System~~
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S-193, S-196 (TK-2027, TK-2077)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
<u>61.343(a)(1)(i)</u>	<u>Standards: Tanks; Fixed Roof</u>	<u>Y</u>	
<u>61.343(a)(1)(i)(A)</u>	<u>Standards: Tanks; Fixed Roof - No detectable emissions >= 500 ppmv; annual inspection</u>	<u>Y</u>	
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
<u>61.349(a)(1)(ii)</u>	<u>Standards: Closed-Vent Systems and Control Devices; Bypass line requirements</u>	<u>Y</u>	
61.349(a)(1)(ii)(B)	<u>Standards: Closed-Vent Systems and Control Devices</u> Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	<u>Standards: Closed-Vent Systems and Control Devices</u> Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	<u>Standards: Closed-Vent Systems and Control Devices</u> Safety valve provisions	Y	
61.349(a)(2)(ii)	<u>Standards: Closed-Vent Systems and Control Devices</u> Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
61.349(b)	<u>Standards: Closed-Vent Systems and Control Devices</u> Operated at all times.	Y	
61.349(c)(1)	<u>Standards: Closed-Vent Systems and Control Devices</u> Demonstrate efficiency required in 61.349(a)(2)	Y	

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Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Visually inspect for leaks quarterly	Y	
61.349(g)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	<u>Standards: Closed-Vent Systems and Control Devices:</u> Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(d)	<u>Monitoring of Operations; Monitor n</u> Non-regenerated carbon adsorption system <u>requirements</u>	Y	
61.354(f)(1)	<u>Monitoring of Operations:</u> Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	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	
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	

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Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition #11880			
Part1	Abatement requirements S-193, S-196, S-205 and S-206. This source shall be abated by two 1200 lb (minimum) carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
Part 2	The combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 shall not exceed 15 pounds per day, as averaged over one month. NMHC mass emissions limit. [Basis: Regulation 8, Rule 2]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer, shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]	Y	
Part 4	Recordkeeping. 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.	Y	

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Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	⌘ Carbon canister changeout date ⌘ Total volume of gas recorded between carbon canister changeout. [Basis: Cumulative Increase]		
Part 5	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 7	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. A-36 VOC monitoring device requirements. [Basis: Cumulative Increase]	Y	
<u>Part 8</u>	<u>A-65 propane firing limit [Basis: cumulative increase]</u>	<u>Y</u>	
<u>Part 9</u>	<u>A-65 NOx emissions limit [Basis: RACT, Source Test Method 13A]</u>	<u>Y</u>	
<u>Part 10</u>	<u>A-65 CO emissions limit [Basis: RACT, Source Test Method 6]</u>	<u>Y</u>	
<u>Part 11</u>	<u>A-65 minimum temperature requirement [basis: Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 12</u>	<u>A-65 temperature monitoring device requirements [basis: Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 13</u>	<u>A-65 temperature excursion exemption</u>	<u>Y</u>	
<u>Part 14</u>	<u>A-65 temperature excursion recordkeeping</u>	<u>Y</u>	
<u>Part 15</u>	<u>A-65 recordkeeping</u>	<u>Y</u>	

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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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	

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S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements: Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements: BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements: Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements: Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements: Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP-- Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

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S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP- Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	

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S-199, S-200 (D-2055, D-2056)

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 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NESHAPS Title 40 Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
40-CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40-CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof with closed vent system	Y	
40-CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof No openings	Y	
40-CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed vent systems are subject to 61.349	Y	
40-CFR 61.343(e)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40-CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40-CFR 61.349(a)	Standards: Closed Vent Systems and Control Devices; Applicability	Y	
40-CFR 61.349(a)(1)(i)	Standards: Closed Vent Systems and Control Devices Closed vent systems--No detectable emissions >= 500 ppmv; annual inspection	Y	
40-CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed vent system	Y	
40-CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas tight	Y	
40-CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40-CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40-CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40-CFR 61.349(b)	Operated at all times.	Y	
40-CFR 61.349(e)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40-CFR 61.349(e)(2)	Standards: Closed Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	

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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(e)	Y	
40-CFR 61.354(e)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40-CFR 61.354(e)(1)	Monitor thermal vapor incinerator temperature	Y	
40-CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40-CFR 61.354(f)	Monitoring of Operations; Closed-vent system with bypass line	Y	
40-CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40-CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
40-CFR 63.640(e)(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(e)(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(e)	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	

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Source-Specific Applicable Requirements
Storage Drums with Closed Vent System & Two Control Devices--Benzene Wastewater
S-199, S-200 (D-2055, D-2056)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition # 11882			
Part 1	S-199 and S-200: The emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The A-57 Thermal oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
Part 9	These sources shall be abated by two 700-lb (minimum) carbon canisters (A-37) in series and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative	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
	Increase]		
Part 10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
Part 12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] 5. Daily NMHC emission rate in pounds per day. 6. Daily NMHC emission rate, as averaged over one month, in pounds per day. 7. Daily flow rate and outlet NMHC concentration. 8. Carbon canister changeout date. Total volume of gas recorded between carbon canister changeout.	Y	

IV. Source Specific Applicable Requirements

Table IV-- J39
Source-Specific Applicable Requirements
~~Storage Drums with Closed Vent System & Two Control Devices--Benzene Wastewater~~
~~S-199, S-200 (D-2055, D-2056)~~

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
Part 16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

Table IV - J40
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank ~~with Closed Vent System~~
~~& Carbon Control Device--~~
S-205, S-206 (TK-2026, TK-2076)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

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 (10/18/2006)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service;	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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Use vapor recovery during filling and emptying on tanks so equipped		
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	

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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-	N	

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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	306.1, 8-5-307.3		
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	

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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)</u>		
<u>10-17</u>	<u>Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels</u>	<u>Y</u>	
<u>BAAQMD Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with	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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity >= 75 cu m and <= 151 cu m and TVP < 15.0 kPa.		
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	
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
60.116b(a)	Monitoring of Operations; Record retention	Y	
60.116b(b)	Monitoring of Operations; Permanent record requirements	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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
NESHAPS Title <u>40 CFR Part 61</u> Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003)		
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
<u>61.343(a)(1)(i)</u>	<u>Standards: Tanks; Fixed Roof</u>	<u>Y</u>	
<u>61.343(a)(1)(i)(A)</u>	<u>Standards: Tanks; Fixed Roof - No detectable emissions >= 500 ppmv; annual inspection</u>	<u>Y</u>	
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
<u>61.349(a)(1)(ii)</u>	<u>Standards: Closed-Vent Systems and Control Devices: Bypass line requirements</u>	<u>Y</u>	
61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Safety valve provisions	Y	
61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
61.349(b)	Operated at all times.	Y	
61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Visually inspect for leaks quarterly	Y	
61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
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 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	

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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
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	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition #11880	For S-193, S-196, S-205 and S-206:		
Part 1	Abatement requirements. This source shall be abated by two 1200 lb (minimum) carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
Part 2	NMHC mass emissions limit. The combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer, 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	

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)
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Recordkeeping 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	
Part 5	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
Part 7	A-36 VOC monitoring device requirements 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	
<u>Part 8</u>	<u>A-65 propane firing limit [Basis: cumulative increase]</u>	<u>Y</u>	
<u>Part 9</u>	<u>A-65 NOx emissions limit [Basis: RACT, Source Test Method 13A]</u>	<u>Y</u>	
<u>Part 10</u>	<u>A-65 CO emissions limit [Basis: RACT, Source Test Method 6]</u>	<u>Y</u>	
<u>Part 11</u>	<u>A-65 minimum temperature requirement [basis: Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 12</u>	<u>A-65 temperature monitoring device requirements [basis: Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 13</u>	<u>A-65 temperature excursion exemption</u>	<u>Y</u>	
<u>Part 14</u>	<u>A-65 temperature excursion recordkeeping</u>	<u>Y</u>	
<u>Part 15</u>	<u>A-65 recordkeeping</u>	<u>Y</u>	

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
<u>BAAQMD Regulation 8 Rule 2</u>	<u>Organic Compounds, Miscellaneous Operations (07/20/2005)</u>		
<u>8-2-301</u>	<u>Miscellaneous Operations</u>	<u>Y</u>	
<u>8-2-601</u>	<u>Determination of Compliance</u>	<u>Y</u>	
<u>BAAQMD Regulation 8 Rule 5</u>	<u>Organic Compounds, Storage of Organic Liquids (10/18/2006)</u>		
<u>8-5-111</u>	<u>Limited Exemption, Tank Removal From and Return to Service</u>	<u>N</u>	
<u>8-5-111.1</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Notification</u>	<u>Y</u>	
<u>8-5-111.2</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification</u>	<u>N</u>	
<u>8-5-111.4</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped</u>	<u>Y</u>	
<u>8-5-111.5</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328</u>	<u>N</u>	
<u>8-5-111.6</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period</u>	<u>N</u>	
<u>8-5-112</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation</u>	<u>N</u>	
<u>8-5-112.1</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification</u>	<u>Y</u>	
<u>8-5-112.2</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification</u>	<u>N</u>	
<u>8-5-112.3</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions</u>	<u>Y</u>	
<u>8-5-112.4</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days</u>	<u>N</u>	
<u>8-5-112.5</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period</u>	<u>N</u>	
<u>8-5-112.6</u>	<u>Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption</u>	<u>N</u>	
<u>8-5-117</u>	<u>Limited Exemption, Low Vapor Pressure</u>	<u>N</u>	
<u>8-5-118</u>	<u>Limited Exemption, Gas Tight Requirement for approved emission</u>	<u>N</u>	

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
	control system in 2 does not apply if facility is subject to BAAQMD 8-18		
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-307.2	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tank working pressure	N	
8-5-307.3	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tanks and blanketed tanks PRD requirements	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.2	Tank Degassing Requirements: Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements: BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements: Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements: Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements: Steam cleaning exceptions	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional): Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	

IV. Source Specific Applicable Requirements

Table IV - J41
Source-Specific Applicable Requirements
Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas
S-208 (D-920)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP - Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	

IV. Source Specific Applicable Requirements

Table IV - J41
Source-Specific Applicable Requirements
Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas
S-208 (D-920)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
NSPS Title 40 Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cu m, after 7/23/1984	Y	
<u>BAAQMD Regulation 11 Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/01/2004)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Exemption when routed to fuel gas system	Y	
NESHAP Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	
BAAQMD Condition #8771			
Part 3	Abatement requirements coker feed drum (D-920) (Cumulative Increase)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	
Part 4	Annual throughput limit coker feed drum (D-920) (Cumulative Increase)The maximum material throughput at S-208 shall not exceed 29 million gallons during any rolling 12 consecutive month period.	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
	{Basis: Cumulative Increase}		
Part 5	<u>Recordkeeping coker feed drum (D-920) (Cumulative Increase)</u> To demonstrate compliance with Condition #4, the monthly material throughput at S-208 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. {Basis: Cumulative Increase}	Y	

Table IV – J42
Source-Specific Applicable Requirements
MACT EXEMPT ~~LPG PRESSURIZED SPHERES LIQUIFIED ORGANIC GAS STORAGE~~
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725, D-1907

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 (10/18/2006) REQUIREMENTS FOR PRESSURE TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of	Y	

IV. Source Specific Applicable Requirements

Table IV – J42
Source-Specific Applicable Requirements
MACT EXEMPT ~~LPG PRESSURIZED SPHERES~~ LIQUIFIED ORGANIC GAS STORAGE
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725, D-1907

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation; Notification		
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-307.2	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tank working pressure	N	
8-5-307.3	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tanks and blanketed tanks PRD requirements	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-403	Inspection Requirements for Pressure Relief Devices	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test	N	

IV. Source Specific Applicable Requirements

Table IV – J42
Source-Specific Applicable Requirements
MACT EXEMPT ~~LPG PRESSURIZED SPHERES~~ LIQUIFIED ORGANIC GAS STORAGE
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725, D-1907

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Reports		
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid; blanket gas; true vapor pressure; Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP • Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003) REQUIREMENTS FOR PRESSURE TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification	Y	

IV. Source Specific Applicable Requirements

Table IV – J42
Source-Specific Applicable Requirements
MACT EXEMPT ~~LPG PRESSURIZED SPHERES~~ LIQUIFIED ORGANIC GAS STORAGE
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725, D-1907

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	before commencement of work		
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements	Y	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Gas Tight Determination	Y	

Table IV – J43
Source-Specific Applicable Requirements
MACT EXEMPT LPG REFRIGERATED TANK WITH VAPOR RECOVERY
TK-1726

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 (10/18/2006) REQUIREMENTS FOR PRESSURE TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	N	

IV. Source Specific Applicable Requirements

Table IV – J43
Source-Specific Applicable Requirements
MACT EXEMPT LPG REFRIGERATED TANK WITH VAPOR RECOVERY
TK-1726

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Minimize emissions and, if required, degas per 8-5-328		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N	
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y	
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N	
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N	
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N	
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-119	Limited Exemption, Repair Period if elect Enhanced Monitoring Program option	N	
8-5-301	Storage Tank Control Requirements	NY	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N	
8-5-328	Tank Degassing Requirements	N	

IV. Source Specific Applicable Requirements

Table IV – J43
Source-Specific Applicable Requirements
MACT EXEMPT LPG REFRIGERATED TANK WITH VAPOR RECOVERY
TK-1726

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	N	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	N	
8-5-501.1	Records; Type and amounts of liquid; blanket gas; true vapor pressure; Retain 24 months	Y	
8-5-501.3	Records; Retention	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N	
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N	
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N	
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N	
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N	
SIP · Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (06/05/2003) REQUIREMENTS FOR PRESSURE TANKS		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service;	Y	

IV. Source Specific Applicable Requirements

**Table IV – J43
 Source-Specific Applicable Requirements
 MACT EXEMPT LPG REFRIGERATED TANK WITH VAPOR RECOVERY
 TK-1726**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Minimization of emissions		
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-404	Certification	Y	
<u>8-5-501</u>	<u>Records</u>	<u>Y</u>	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-605	Gas Tight Determination	Y	

**Table IV – K1
 Source-specific Applicable Requirements
 A57, WWTP THERMAL OXIDIZER**

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
1-107	Combination of Emissions	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements and Visible Emissions (12/19/90 12/05/2007)		
6-1-301	Ringelmann #1 Limitation	Y	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/08/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (10/18/2006)		
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-502	Source Test Requirements	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-502.1	Source Test Requirements; Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-603	Determination of Abatement Efficiency	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-404	Certification	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
BAAQMD Regulation 8, Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)		
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min)	Y	
8-8-302.3	<u>Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min): Combined collection and destruction efficiency of 95% by weight. An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95 percent by weight.</u>	N	
8-8-304	Sludge-dewatering Unit with control device with combined collection and destruction efficiency of 95% by weight	N	
8-8-305	Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.2	Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels: Combined collection and destruction efficiency of 70% by weight	N	
8-8-307	Air Flotation Unit	Y	
8-8-307.2	<u>Air Flotation Unit:</u> Combined collection and destruction efficiency of 70% by weight	N	
8-8-602	Determination of Emissions	N	
SIP Regulation 8 Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-302.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95 percent by weight.	Y	
8-8-304	Sludge-dewatering Unit with control device with combined	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>collection and destruction efficiency of 95% by weight</u>		
<u>8-8-305.2</u>	<u>Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels: Combined collection and destruction efficiency of 70% by weight</u>	<u>Y</u>	
8-8-307.2	Combined collection and destruction efficiency of 70% by weight	Y	
8-8-602	Determination of Emissions	Y	
<u>BAAQMD Regulation 11, Rule 12</u>	<u>Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)</u>	<u>Y</u>	
BAAQMD Regulation 12 Rule 11	Flare Monitoring at Petroleum Refineries (06/04/2003)		
12-11-112	Exemption, Wastewater Treatment Systems	N	
BAAQMD Regulation 12 Rule 12	Flares at Petroleum Refineries (04/05/2006)		
12-12-112	Exemption, Wastewater Treatment Systems	N	
40 CFR 60 Subpart A	NSPS Subpart A General Provisions (06/01/2006)		
40 CFR 60.13(i)	Alternative Monitoring Provisions	Y	
40 CFR Part 60 Subpart J	Standards of Performance NSPS Subpart J for Petroleum Refineries (09/21/2006/06/24/2008)		
<u>60.101(d)</u>	<u>Fuel gas does not include vapors collected and combusted to comply with wastewater provisions in §60.692, 61.343 through 61.348, or 63.647</u>	<u>Y</u>	
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.101	Definitions	Y	
40 CFR 60.104	Standards for Sulfur Oxides	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)(4)	H2S monitors	Y	
40 CFR Part 61 Subpart FF	National Emission Standards NESHAPS for Benzene Waste Operations (12/04/2003)		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.343(a)(1)	Standards: Tanks; <u>Fixed Roof</u> -- Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the tank to a control device	Y	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.347(a)	Standards: Oil-water separators	Y	
61.347(a)(1)	Standards: Oil-water separators; Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control device	Y	
61.347(a)(1)(ii)	Standards: Oil-water separators; Closed-vent systems are subject to 61.349	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Safety valve provisions	Y	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control device requirements	Y	
61.349(a)(2)(i)	Standards: Closed-Vent Systems and Control Devices; Control device requirements ; Enclosed combustion device requirements	Y	
61.349(a)(2)(i)(A)	Standards: Closed-Vent Systems and Control Devices; Control device requirements; Enclosed combustion device requirements ; Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
61.349(b)	Standards: Closed-Vent Systems and Control Devices; Control device requirements; Enclosed combustion device requirements ; Operated at all times.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices; Demonstrate efficiency required in 61.349(a)(2)	Y	
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration ; Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices ; Administrator may request performance tests	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices ; Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices ; Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices ; Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitoring of Operations: Closed-vent systems and control devices- Monitor thermal vapor incinerator temperature	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line; Visually inspect carseal/valve positions monthly	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(h)	Test Methods, Procedures, and Compliance Provisions; No detectable emissions procedures	Y	
61.355(i)	Test Methods, Procedures, and Compliance Provisions ; Performance test procedures	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping Requirements ; Recordkeeping and retention requirements	Y	
61.356(d)	Recordkeeping Requirements ; Engineering design documentation for all control equipment	Y	
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	
61.356(f)(1)	Recordkeeping Requirements: certification of performance level	Y	
61.356(f)(3)	Recordkeeping Requirements ; Requirements for performance tests	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through 61.347	Y	
61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347 and 61.349	Y	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(j)(1)	Recordkeeping Requirements: dates of startup and shutdown	Y	
61.356(j)(2)	Recordkeeping Requirements: description of parameters	Y	
61.356(j)(3)	Recordkeeping Requirements: periods when closed vent system and control device are not operating	Y	
61.356(j)(3)(i)	Recordkeeping Requirements; Bypass Line Controls	Y	
61.356(j)(4)	Recordkeeping Requirements: Control device operation--Thermal vapor incinerator	Y	
40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003) Requirements for Group 1 wastewater streams		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	Group 1 wastewater streams shall comply with 40 CFR Part 61.340 – 61.355, Subpart FF	Y	
63.647(c)	Owners/operators required under subpart FF to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition #11879	Consolidated Condition - Wastewater Treatment Plant Equipment		
Part 1	Abatement requirements - S-131, S-150, S-194, S-195, S-197, S-198, S-199 and S-200 (Basis: Cumulative Increase)	Y	
Part 2	Throughput limits - S-194, S-195, S-197 and S-198. (Basis: Cumulative Increase)	Y	
Part 3	A-57 NOx Limit (Basis: BAAQMD 2-2-112)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	A-57 CO Limit (Basis: BAAQMD 2-2-112)	Y	
Part 5	A-57 VOC destruction efficiency requirement (Basis: NSPS and NESHAPS)	Y	
Part 6	A-57 oxidation temperature requirement. (Basis: Regulation 2-1-403)	Y	
Part 7	A-57 continuous temperature monitor (Basis: Temperature Monitoring and Regulation 1-521)	Y	
Part 8	A-37 continuous flow meter and continuous total hydrocarbon concentration monitors (Basis: Cumulative Increase)	Y	
Part 9	Flow indicator for vents from S-131, S-150, S-194, S-195, S-197, S-198, S-199 and S-200 to control devices (Basis: Cumulative Increase)	Y	
Part 10	NMHC mass emission limit (WWTP and Diversion Area abatement devices) (Basis: Regulation 8, Rule 2)	Y	
Part 11	Carbon Canister NMHC mass emissions determination methodology (Basis: Cumulative Increase)	Y	
Part 12	Thermal oxidizer NMHC mass emissions determination methodology (Basis: Cumulative Increase)	Y	
Part 13	Recordkeeping (Basis: Cumulative Increase)	Y	
BAAQMD Condition #11879	Permit Conditions for S-150 Sour Wastewater Tank		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NO _x) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The Owner/Operator shall equip A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the oxidation temperature in A-57. (Basis: Temperature Monitoring)	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	
Part 10	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 12	To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	e. Total volume of gas recorded between carbon canister changeout.		
BAAQMD Condition #11882	Permit Conditions for S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)	Y	
Part 5	The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	
Part 10	The Owner/Operator shall limit the total combined non-methane	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]		
Part 12	To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
BAAQMD Condition #11888	Permit Conditions for S-131 Wastewater Sludge Tank TK-2069		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If	Y	

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**Table IV – K1
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1403)		
Part 5	The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	
Part 10	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
Part 12	To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
BAAQMD Condition #13319	Permit Conditions for S-194 Oil/Water/Sediment Separator 2006 S-195 Oil/Water/Sediment Separator 2056		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	S-197 Induced Static Flotation Cell 2007 S-198 Induced Static Flotation Cell 2057		
Part 1	The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 2	The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
Part 3	The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
Part 4	The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1403)	Y	
Part 5	The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
Part 6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)	Y	
Part 15	The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month.	Y	

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

**Table IV – K2
Source-specific Applicable Requirements
A-65, DIVERSION AREA THERMAL OXIDIZER**

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
<u>1-107</u>	<u>Combination of Emissions</u>	<u>Y</u>	
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>N</u>	
<u>1-523.1</u>	<u>Parametric monitor periods of inoperation</u>	<u>Y</u>	
<u>1-523.2</u>	<u>Limits on periods of inoperation</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Reports of Violations</u>	<u>N</u>	
<u>1-523.4</u>	<u>Records</u>	<u>Y</u>	
<u>1-523.5</u>	<u>Maintenance and calibration</u>	<u>N</u>	
<u>SIP</u>	<u>General Provisions and Definitions (06/28/1999)</u>		

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A-65, DIVERSION AREA THERMAL OXIDIZER

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Regulation 1</u>			
<u>1-523</u>	<u>Parametric Monitoring and Recordkeeping Procedures</u>	<u>Y</u>	
<u>1-523.3</u>	<u>Reports of Violations</u>	<u>Y</u>	
<u>BAAQMD Regulation 6, Rule 1</u>	<u>Particulate Matter, General Requirements (12/05/2007)</u>		
<u>6-1-301</u>	<u>Ringelmann #1 Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>N</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>N</u>	
<u>SIP Regulation 6</u>	<u>Particulate Matter and Visible Emissions (09/04/1998)</u>		
<u>6-301</u>	<u>Ringelmann #1 Limitation</u>	<u>Y</u>	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
<u>BAAQMD Regulation 8, Rule 5</u>	<u>Organic Compounds, Storage of Organic Liquids (10/18/2006)</u>		
<u>8-5-118</u>	<u>Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18</u>	<u>N</u>	
<u>8-5-306</u>	<u>Requirements for Approved Emission Control Systems</u>	<u>N</u>	
<u>8-5-306.1</u>	<u>Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%</u>	<u>N</u>	
<u>8-5-404</u>	<u>Inspection, Abatement Efficiency Determination, and Source Test Reports</u>	<u>N</u>	
<u>8-5-502</u>	<u>Source Test Requirements</u>	<u>N</u>	
<u>8-5-502.1</u>	<u>Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3</u>	<u>N</u>	
<u>8-5-603</u>	<u>Determination of Abatement Efficiency</u>	<u>N</u>	
<u>SIP Regulation 8, Rule 5</u>	<u>Organic Compounds, Storage of Organic Liquids (06/05/2003)</u>		

IV. Source Specific Applicable Requirements

Table IV – K2
Source-specific Applicable Requirements
A-65, DIVERSION AREA THERMAL OXIDIZER

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-404	Certification	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1	Determination of Emissions: Organic compounds specified in 8-5-306	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-17	Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y	
BAAQMD Regulation 12, Rule 11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-112	Exemption, Wastewater Treatment Systems	N	
BAAQMD Regulation 12, Rule 12	Flares at Petroleum Refineries (4/5/06)		
12-12-112	Exemption, Wastewater Treatment Systems	N	
40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC): Closed vent system and control device no detectable emissions	Y	
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC): Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
60.113b(c)	Testing and Procedures: Closed vent system and control device (not flare)	Y	
60.113b(c)(1)	Testing and Procedures: Closed vent system and control device (not flare) operating plan submission	Y	
60.113b(c)(1)(i)	Testing and Procedures: Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
60.113b(c)(1)(ii)	Testing and Procedures: Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
60.113b(c)(2)	Testing and Procedures: Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
60.115b	Reporting and Recordkeeping Requirements: 60.112b(a) tanks	Y	
60.115b(c)(1)	Reporting and Recordkeeping Requirements: Closed vent system and control device (not flare) operating plan copy	Y	
60.115b(c)(2)	Reporting and Recordkeeping Requirements: Closed vent system and control device (not flare) operating records	Y	
40 CFR Part 61 Subpart FF	National Emission Standards for Benzene Waste Operations (12/04/2003)		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.343(a)(1)	Standards: Tanks: Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the tank to a control device	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed-vent systems are subject to 61.349	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Safety valve provisions	Y	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control device requirements	Y	
61.349(a)(2)(i)	Standards: Closed-Vent Systems and Control Devices; Enclosed combustion device requirements	Y	
61.349(a)(2)(i)(A)	Standards: Closed-Vent Systems and Control Devices; Enclosed combustion device requirements: Greater than 95% control efficiency.	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
61.349(b)	Standards: Closed-Vent Systems and Control Devices; Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices; Demonstrate efficiency required in 61.349(a)(2)	Y	
61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices; Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices; Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices; Monitor per 61.354(c)	Y	
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
61.354(c)(1)	Monitoring of Operations; Monitor thermal vapor incinerator temperature	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line; Visually inspect carseal/valve positions monthly	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(h)	Test Methods, Procedures, and Compliance Provisions; No detectable emissions procedures	Y	
61.355(i)	Performance test procedures	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(d)	Recordkeeping Requirements: Engineering design documentation for all control equipment	Y	
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	

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Source-specific Applicable Requirements
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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
61.356(f)(1)	Recordkeeping Requirements: certification of performance level	Y	
61.356(f)(3)	Requirements for performance tests	Y	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(j)(1)	Recordkeeping Requirements: dates of startup and shutdown	Y	
61.356(j)(2)	Recordkeeping Requirements: description of parameters	Y	
61.356(j)(3)	Recordkeeping Requirements: periods when closed vent system and control device are not operating	Y	
61.356(j)(3)(i)	Recordkeeping Requirements: Bypass Line Controls	Y	
61.356(j)(4)	Recordkeeping Requirements: Control device operation--Thermal vapor incinerator	Y	
40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	Group 1 wastewater streams shall comply with 40 CFR Part 61.340 – 61.355, Subpart FF	Y	
63.647(c)	Owners/operators required under subpart FF to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition 11880			
Part 1	Abatement requirements [Cumulative Increase]	Y	
Part 2	NMHC mass emissions limit [Regulation 8, Rule 2]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer. [Cumulative Increase]	Y	
Part 4	Recordkeeping [Cumulative Increase]	Y	
Part 7	A-36 VOC monitoring device requirements [Cumulative Increase]	Y	
Part 8	A-65 propane firing limit [cumulative increase]	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 9	A-65 NOx emissions limit [RACT, Source Test Method 13A]	Y	
Part 10	A-65 CO emissions limit [RACT, Source Test Method 6]	Y	
Part 11	A-65 minimum temperature requirement [Regulation 2-1-403]	Y	
Part 12	A-65 temperature monitoring device requirements [Regulation 2-1-403]	Y	
Part 13	A-65 temperature excursion exemption [Regulation 2-1-403]	Y	
Part 14	A-65 temperature excursion recordkeeping [Regulation 2-1-403]	Y	
Part 15	A-65 recordkeeping [Recordkeeping]	Y	

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A-37, WWTP CARBON CANISTERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>BAAQMD Regulation 1</u>	<u>General Provisions and Definitions (07/19/2006)</u>		
1-107	Combination of Emissions	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
<u>SIP Regulation 1</u>	<u>General Provisions and Definitions (06/28/1999)</u>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
<u>BAAQMD Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements (12/05/2007)</u>		
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (09/15/2004)		
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min)	Y	
8-8-302.3	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min): Combined collection and destruction efficiency of 95% by weight	N	
8-8-304	Sludge-dewatering Unit with control device with combined collection and destruction efficiency of 95% by weight	N	
8-8-305	Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.2	Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels: Combined collection and destruction efficiency of 70% by weight	N	
8-8-307	Air Flotation Unit	Y	
8-8-307.2	Air Flotation Unit: Combined collection and destruction efficiency of 70% by weight	N	
8-8-602	Determination of Emissions	N	
SIP - Regulation 8 - Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-302.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95 percent by weight.	Y	
8-8-304	Sludge-dewatering Unit with control device with combined collection and destruction efficiency of 95% by weight	Y	
8-8-305.2	Oil-Water Separator and/or Air Flotation Unit Slop Oil Vessels:	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	Combined collection and destruction efficiency of 70% by weight		
8-8-307.2	Combined collection and destruction efficiency of 70% by weight	Y	
8-8-602	Determination of Emissions	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y	
40 CFR Part 61 Subpart FF	NESHAPS for Benzene Waste Operations (12/04/2003)		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.343(a)(1)	Standards: Tanks; Fixed Roof--Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the tank to a control device	Y	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
61.347(a)	Standards: Oil-water separators	Y	
61.347(a)(1)	Standards: Oil-water separators; Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control device	Y	
61.347(a)(1)(ii)	Standards: Oil-water separators; Closed-vent systems are subject to 61.349	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >= 500 ppmv; annual inspection	Y	
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Safety valve provisions	Y	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	device requirements		
61.349(a)(2)(ii)	Standards: Closed-Vent Systems and Control Devices; Controlled by vapor recovery (carbon adsorption); 95% VOC or 98% benzene control	Y	
61.349(b)	Standards: Closed-Vent Systems and Control Devices; Control device requirements; Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration—Engineering calculations	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices; Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices; Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices; Monitor per 61.354(c)	Y	
61.354	Monitoring of Operations	Y	
61.354(d)	Monitoring of Operations; Monitor non-regenerated carbon adsorption system	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line; Visually inspect carseal/valve positions monthly	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(h)	Test Methods, Procedures, and Compliance Provisions; No detectable emissions procedures	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping Requirements: retention requirements	Y	
61.356(d)	Recordkeeping Requirements: Engineering design documentation for all control equipment	Y	
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(j)(1)	Recordkeeping Requirements: dates of startup and shutdown	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
61.356(j)(2)	Recordkeeping Requirements: description of parameters	Y	
61.356(j)(3)	Recordkeeping Requirements: periods when closed vent system and control device are not operating	Y	
61.356(j)(3)(i)	Recordkeeping Requirements: Bypass Line Controls	Y	
61.356(j)(9)	Recordkeeping Requirements: Control device operation—Carbon adsorber	Y	
61.356(j)(10)	Recordkeeping Requirements: Control device operation—Carbon adsorber – non regenerated	Y	
40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	Group 1 wastewater streams shall comply with 40 CFR Part 61.340 – 61.355, Subpart FF	Y	
63.647(c)	Owners/operators required under subpart FF to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
BAAQMD Condition 11879			
Part 1	Abatement requirements (Cumulative Increase)	Y	
Part 8	A-37 flow meter and total hydrocarbon analyzer (Cumulative Increase)	Y	
Part 9	Flow indicator or equivalent on vent streams to control devices (Cumulative Increase)	Y	
Part 10	Combined NMHC mass emissions limit (Regulation 8, Rule 2)	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
Part 11	NMHC limit compliance determination – carbon canisters (Cumulative Increase)	Y	
Part 13	Recordkeeping (Cumulative Increase)	Y	

Table IV – K4
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A36, DIVERSION AREA CARBON CANISTERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 1	General Provisions and Definitions (07/19/2006)		
1-107	Combination of Emissions	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limits on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter, General Requirements (12/05/2007)		
6-1-301	Ringelmann #1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 5	Storage of Organic Liquids (10/18/2006)		
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency >= 95%	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-502	Source Test Requirements	N	
8-5-502.1	Source Test Requirements: Annual source test for approved emission control systems and abatement devices for 8-5-303.2, 8-5-306.1, 8-5-307.3	N	
8-5-603	Determination of Abatement Efficiency	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-404	Certification	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1	Determination of Emissions: Organic compounds specified in 8-5-306	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-17	Subpart Kb. Standards of Performance for Volatile Organic Liquid Storage Vessels	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted	Y	

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<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>07/18/1990; Subpart FF last amended 01/05/1994)</u>		
40 CFR Part 60 Subpart Kb	<u>NSPS Subpart Kb for Tanks (10/15/2003)</u>		
<u>60.112b(a)(3)(i)</u>	<u>Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions</u>	<u>Y</u>	
<u>60.112b(a)(3)(ii)</u>	<u>Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction</u>	<u>Y</u>	
<u>60.113b(c)</u>	<u>Testing and Procedures; Closed vent system and control device (not flare)</u>	<u>Y</u>	
<u>60.113b(c)(1)</u>	<u>Testing and Procedures; Closed vent system and control device (not flare) operating plan submission</u>	<u>Y</u>	
<u>60.113b(c)(1)(i)</u>	<u>Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration</u>	<u>Y</u>	
<u>60.113b(c)(1)(ii)</u>	<u>Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters</u>	<u>Y</u>	
<u>60.113b(c)(2)</u>	<u>Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan</u>	<u>Y</u>	
<u>60.115b</u>	<u>Reporting and Recordkeeping Requirements; 60.112b(a) tanks</u>	<u>Y</u>	
<u>60.115b(c)(1)</u>	<u>Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy</u>	<u>Y</u>	
<u>60.115b(c)(2)</u>	<u>Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records</u>	<u>Y</u>	
40 CFR Part 61 Subpart FF	<u>National Emission Standards for Benzene Waste Operations (12/04/2003)</u>		
<u>61.340(a)</u>	<u>Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries</u>	<u>Y</u>	
<u>61.343(a)(1)</u>	<u>Standards: Tanks; Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the tank to a control device</u>	<u>Y</u>	
<u>61.343(a)(1)(ii)</u>	<u>Standards: Tanks; Closed-vent systems are subject to 61.349</u>	<u>Y</u>	
<u>61.349(a)</u>	<u>Standards: Closed-Vent Systems and Control Devices; Applicability</u>	<u>Y</u>	
<u>61.349(a)(1)</u>	<u>Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements</u>	<u>Y</u>	
<u>61.349(a)(1)(i)</u>	<u>Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions >/= 500 ppmv; annual</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – K4
Source-specific Applicable Requirements
A36, DIVERSION AREA CARBON CANISTERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	inspection		
61.349(a)(1)(ii)(B)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Car-sealed valves on bypass lines in closed-vent system	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Gauging/sampling devices are gas-tight	Y	
61.349(a)(1)(iv)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements; Safety valve provisions	Y	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control device requirements	Y	
61.349(a)(2)(ii)	Standards: Closed-Vent Systems and Control Devices; Controlled by vapor recovery (carbon adsorption): 95% VOC or 98% benzene control	Y	
61.349(b)	Standards: Closed-Vent Systems and Control Devices; Control device requirements; Operated at all times.	Y	
61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration—Engineering calculations	Y	
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
61.349(f)	Standards: Closed-Vent Systems and Control Devices; Visually inspect for leaks quarterly	Y	
61.349(g)	Standards: Closed-Vent Systems and Control Devices; Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
61.349(h)	Standards: Closed-Vent Systems and Control Devices; Monitor per 61.354(c)	Y	
61.354	Monitoring of Operations	Y	
61.354(d)	Monitoring of Operations; Monitor non-regenerated carbon adsorption system	Y	
61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line; Visually inspect carseal/valve positions monthly	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	

IV. Source Specific Applicable Requirements

Table IV – K4
Source-specific Applicable Requirements
A36, DIVERSION AREA CARBON CANISTERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
61.355(h)	Test Methods, Procedures, and Compliance Provisions; No detectable emissions procedures	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(d)	Recordkeeping Requirements: Engineering design documentation for all control equipment	Y	
61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	
61.356(j)	Recordkeeping Requirements: Control device operation	Y	
61.356(j)(1)	Recordkeeping Requirements: dates of startup and shutdown	Y	
61.356(j)(2)	Recordkeeping Requirements: description of parameters	Y	
61.356(j)(3)	Recordkeeping Requirements: periods when closed vent system and control device are not operating	Y	
61.356(j)(3)(i)	Recordkeeping Requirements: Bypass Line Controls	Y	
61.356(j)(9)	Recordkeeping Requirements: Control device operation—Carbon adsorber	Y	
61.356(j)(10)	Recordkeeping Requirements: Control device operation—Carbon adsorber – non regenerated	Y	
40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
63.647(a)	Group 1 wastewater streams shall comply with 40 CFR Part 61.340 – 61.355, Subpart FF	Y	
63.647(c)	Owners/operators required under subpart FF to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356	Y	

IV. Source Specific Applicable Requirements

Table IV – K4
Source-specific Applicable Requirements
A36, DIVERSION AREA CARBON CANISTERS

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>and 61.357 of 40 CFR Part 61, Subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.</u>		
<u>BAAQMD Condition 11880</u>			
<u>Part 1</u>	<u>Abatement requirements [Basis: Cumulative Increase]</u>	<u>Y</u>	
<u>Part 2</u>	<u>NMHC mass emissions limit [Basis: Regulation 8, Rule 2]</u>	<u>Y</u>	
<u>Part 3</u>	<u>NMHC determination methods – carbon canisters and thermal oxidizer. [Basis: Cumulative Increase]</u>	<u>Y</u>	
<u>Part 4</u>	<u>Recordkeeping [Basis: Cumulative Increase]</u>	<u>Y</u>	
<u>Part 7</u>	<u>A-36 VOC monitoring device requirements [Basis: Cumulative Increase]</u>	<u>Y</u>	

DRAFT -- DO NOT CITE OR QUOTE -- DRAFT

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

125, 126	S-1 and S-2 Claus Units
254	S-173 Process Furnace F-902
639	S-174 and S-175 Lime Slurry Tanks
815	S-1006 Crude Unit (Superseded by Condition 20820, Parts 50, 51 and 52 upon activation of Condition 20820, Part 21.a triggers)
1709	S-129 Marine Bulk Plant LD-129
3253	S-176 Salt Tank TK-2325
4882	S-188 and S-189 Oil/Water Separators
7559	S-133 Spent Acid Tank
8348	S-1007 Alkylation unit (S superseded by condition 10574)
8564	S-57 Floating Roof Tank TK-1701
8771	S-208 Coker Feed Drum D-920
9296	S-40, S-158, S-209, S-210, S-211 and S-1024
9584	S-158 Fixed Roof Tank
9897	S-11 Activated Carbon Bin TK-2061
10574	Clean Fuels Project, S-21, 22, 151, 220, 227, 1007, 1011, 1020, 1021, 1022, 1023, 1024, 1026 and 1058 (Superseded by Condition 24197 upon startup of S-1061, Hydrogen Reformer Furnace)
10633	S-97 Floating Roof Tank TK-1776
10797	S-207 Floating Roof Tank
11030	S-3 and S-4 Furnaces (Deleted upon startup of Upon Startup of S-1059 and S-1060 PS Furnaces)
11879	S-150 Sour Wastewater Tank S-131, S-150, S-194, S195, S-197, S-198, S-199, S-200, Wastewater Treatment Equipment
11880	S-193, S-196, S-205, S-206 Wastewater Tanks

VI. Permit Conditions

11882	S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056
11883	S-201 Truck Loading Operation
11884	S-202 Truck Loading Operation
11888	S-131 Wastewater Sludge Tank TK-2069
12727	S-232 and S-233, ESP Fines System <u>(To be deleted upon startup of S-10 and S-1060 PS Furnaces)</u>
13045	S-143 Fixed Roof Tank
13319	S-194, S-195, S-197, S-198 Oil/Water/Sediment Separators and Flotation Units
14318	S-23 Process Oil Furnace F-401
15512	S-1010 Hydrogen Plant
16027	S-237, SG-1031 Boiler
16386	S-37 Waste Heat Boiler SG-702 and S-45 Gas Turbine GT-702
17835	S-1027 Light Ends Rail Rack
18043	S-1007, S-1014, S-1012 Alkylation, CLE Splitter and Dimersol Units
18422	S-239 TK-1918
18744	Superseded by <u>2282024375</u>
18748	Superseded by <u>2285124310</u>
18794	S-1004 Catalytic Reformer <u>(Superseded by Condition 20820, Parts 55 and 56 upon activation of Condition 20820, Part 21.a triggers)</u>
19177	Cogen Project S-1030 and 1031
19177	Cogen Project S-1030 and S-1031
19329	Alternative Compliance Plan S-7, 20 – 26, 30 – 35, 40, 41, 173 and 220. <u>(To be deleted upon expiration of NOx IERCs)</u>
19466	Title V Monitoring
19466	Title V Monitoring (Superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers)
20666	S165 Phase I EVR Requirements
20762	Low Vapor Pressure Storage Tanks
20806	Flare Monitoring

VI. Permit Conditions

21233	Regulation 9-10 NOx Box
21233	Regulation 9-10 NOx Box
22156	ESP Monitoring (Deleted upon startup of S-1059 and S-1060 PS Furnaces)
22323	S165 Throughput Limit
2282024375	Emergency Standby Engine ATCM Conditions (S-243)
2285024309	Emergency Standby Engine ATCM Conditions (S-251)
2285124310	Firewater Pump ATCM Conditions (S-240, S-241, S-242)
22949	Ultra Low Sulfur Diesel Unit (S-247, S-248, S-1036, S-1051, and S-1052)
23326	S27 Powerformer Regeneration Facility
23446	Sulfur Storage Pit (S-157) Consent Decree Abatement
24080	Alkylation Modification/Butamer Unit (S-1034, S-1035, S-1049, S-1050)
24197	Clean Fuels Project, S-21 or 22, 151, 220, 227, 1007, 1011, 1020, 1021, 1022, 1023, 1024, 1026 and 1058 (Supersedes Condition 10574 upon startup of S-1061 and S-1062)
24198	Title V Monitoring (Supersedes Condition 19466 upon activation of Condition 20820, Part 21.a triggers)
24239	Consent Decree Requirements for NSPS Subpart J and Alternate Monitoring Plans for PM, Opacity, and CO for S-5, FCCU
24245	Consent Decree Requirements for NSPS Subpart J SO2 for Fuel Gas Combustion Devices and Flares
24261	Alternate Monitoring Plan for NOx CEMS Span for S-220, S-237, S-1031
24297	EVR Phase II Upgrade for S-165 Gasoline Dispensing Facility (Authority to Construct Condition)
24298	EVR Phase II Upgrade for S-165 Gasoline Dispensing Facility (Permit to Operate Condition)
76003	Deleted. Additive no longer available and S108 out of service

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

VI. Permit Conditions

Condition# 125

Valero Refining Company - California
3400 E. Second Street
Benicia, Ca 94510

—Application 14443

S-1 Sulfur Recovery Unit A

Previous Applications: 26227_(1977), 26878_(1979), 29808
(1984), 17850_(1997), 8028 (Oct 2003) and 8427 (Dec 2003), 14443 (Aug 2006), 14604
(Oct 2006)

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

1. The Owner/Operator shall provide reasonable access to 24 hour sulfur production data whenever the APCO or his/her designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: Banked POC credits]
2. Deleted [Basis: H2S monitor installation completed for S-1.](Basis: Owner/Operator installed the best available H2S monitor which was approved by the APCO.)
3. Except during upset conditions, the Owner/Operator shall not open the motor operated valve (MOV-001), which allows Tail Gas from S-1 to flow to the incinerator (F-1302A; A-14), when either of the sour gas feed valves (F002, F004) to source (S-1) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: Regulation 9-1-313.2, odors]
4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-62 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-313.2, odors]
5. The total emissions from natural gas firing in both A-24 and A-62 Reducing Gas Generators shall not exceed the following limits:

Pollutant	lb/hr	tons/yr
NOx:	1.842	8.064
CO:	1.547	6.774
POC:	0.102	0.444
PM10:	0.140	0.613
SO2:	0.011	0.048

(Basis: Offsets, Cumulative Increase)

6. The Owner/Operator of A-24 shall fire the Reducing Gas Generator only with natural Gas not to exceed a maximum heat release of 9.1 MMBtu/hr, a maximum natural gas fuel rate of 13,500 SCFH, and a maximum annual natural gas consumption of 108

VI. Permit Conditions

- MMSCF (12,275 annual average). (Basis: Cumulative Increase, Toxics)
7. Within 60 days of the start up of the parallel operation of A-24 and A-62 Tail Gas Treatment Units, the Owner/Operator shall conduct an initial District approved source test to demonstrate the emission changes caused by the operation of the two Beavon Process Reducing Gas Generators simultaneously. This source test shall measure the NO_x, CO, POC, PM10 and SO₂ emissions before and after the startup of the second Tail Gas Treatment unit. Reasonable steps shall be taken in the refinery to maximize natural gas firing to both units. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test. (Basis: Compliance determination, Cumulative Increase, Offsets)
 8. The owner/operator shall conduct a District approved source test annually to demonstrate compliance with the NO_x limits of Part 5. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test. (Basis: Cumulative Increase, Offsets)
 9. In order to determine compliance with the 10 ppm H₂S limit of NSPS Subpart J 40 CFR Part 60.104(a)(2)(ii), the owner/operator shall conduct an initial District approved source test. The owner/operator shall obtain approval for all source test procedures from the District's source Test Section prior to conducting any tests. The owner/operator shall notify the District's source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: NSPS 60.104(a)(2)(ii) and 60.8, Consent Decree XII.B Paragraphs 221, 222 & 224.)

Condition# 126

Valero Refining Company - California

3400 E. Second Street

Benicia, Ca 94510

Application 14443

S-2 Sulfur Recovery Unit B

Previous Applications: 26227(1977), 26878(1979), 29808

(1984), 17850_(1997), 8028 (Oct 2003) ~~and~~ 8427 (Dec 2003), 14443 (Aug 2006), 14604 (Oct 2006)

For Source S-2 Claus (F-1301B, Natural Gas)

1. The Owner/Operator shall provide reasonable access to 24 hour sulfur production data whenever the APCO or his/her designated representative performs compliance determinations on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: BAAQMD 9-1-313.2]
2. Deleted [Basis: H₂S monitor installation completed for S-2.](Basis: Owner/Operator installed the best available H₂S monitor which was approved by the APCO.)
3. Except during upset conditions, the Owner/Operator shall not open the motor operated

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valve (MOV-003), that allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15) when either of the sour gas feed valves (F052, F054) to source S-2 are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: Regulation 9-1-313.2]

4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-2 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-62 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-313.2]
5. The total emissions from natural gas firing in both A-24 and A-62 Reducing Gas Generators shall not exceed the following limits:

Pollutant	lb/hr	tons/yr
NOx:	1.842	8.064
CO:	1.547	6.774
POC:	0.102	0.444
PM10:	0.140	0.613
SO2:	0.011	0.048

(Basis: Offsets, Cumulative Increase)

6. The Owner/Operator of A-62 shall fire the Reducing Gas Generator only with natural Gas not to exceed a maximum heat release of 9.1 MMBtu/hr, a maximum natural gas fuel rate of 13,500 SCFH, and a maximum annual natural gas consumption of 108 MMSCF (12,275 annual average). (Basis: Cumulative Increase, Toxics)
7. Within 60 days of the start up of the parallel operation of A-24 and A-62 Tail Gas Treatment Units, the Owner/Operator shall conduct an initial District approved source test to demonstrate the emission changes caused by the operation of the two Beavon Process Reducing Gas Generators simultaneously. This source test shall measure the NOx, CO, POC, PM10 and SO2 emissions before and after the startup of the second Tail Gas Treatment unit. Reasonable steps shall be taken in the refinery to maximize natural gas firing to both units. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test. (Basis: Compliance determination, Cumulative Increase, Offsets)
8. The owner/operator shall conduct a District approved source test annually to demonstrate compliance with the NOx limits of Part 5. The Owner/Operator shall submit the results of the source test to the Source Test Section within 60 days of the source test. (Basis: Cumulative Increase, Offsets)
9. In order to determine compliance with the 10 ppm H2S limit of NSPS Subpart J 40 CFR Part 60.104(a)(2)(ii), the owner/operator shall conduct an initial District approved source test. The owner/operator shall obtain approval for all source test procedures from the District's source Test Section prior to conducting any tests. The owner/operator shall notify the District's source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: NSPS

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60.104(a)(2)(ii) and 60.8, Consent Decree XII.B Paragraphs 221, 222 & 224.)

VI. Permit Conditions

Condition 254

For S-173 Process Furnace (F-902)

APPLICATION 16708, S-173, Decrease Part 3 source test frequency (Mar 2008)

1. The Owner/Operator shall maintain the NOx emissions from S-173 at or below 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]
2. The Owner/Operator shall operate the Furnace F-1060 for no more than 30 days per year. [Basis: Cumulative Increase]
3. The Owner/Operator shall conduct a District approved Source Test -on source S-173 on an annual basis~~within 30 days after start-up and every six months thereafter~~ to determine compliance with part #1. [Basis: Cumulative Increase]
4. Any "banking" application submitted by the Owner/Operator relative to this permit shall, at a minimum, include an analysis of the entire coker, specifically emissions associated with "running normal rates for longer periods." [Basis: Cumulative Increase]

Condition# 639

For Source S-174 and S-175

1. The Owner/Operator shall abate the visible emissions from the lime slurry tanks. [Basis: BAAQMD Regulation 1-301]
2. In order to demonstrate compliance with BAAQMD Regulations 6-1-301, 6-1-310 and 6-1-311, the Owner/Operator shall monitor and record the visible emissions from S-174 and S-175 Lime Slurry Tanks on an annual basis. The visible emissions test shall be conducted during the entire lime offloading operation and the highest visible emissions during the period shall be recorded. If any visible emission exceeds Ringelmann No. 1 for a period greater than 3 minutes in an hour, the Owner/Operator shall take corrective action to comply with Part 1 of this condition. (Basis: Regulation BAAQMD 6-1-301/SIP 6-301, BAAQMD 6-1-310/SIP 6-310 and BAAQMD 6-1-311/SIP 6-311)

Condition# 815

For Source S-1006

APPLICATION 16937 (Jan 2009), VIP Amendments, Condition superseded by Condition 20820, Parts 50, 51 and 52 upon activation of Condition 20820, Part 21.a triggers

1. The Crude Unit throughput shall not exceed 135,000 barrels per day (any single day) of crude feed. [Basis: Cumulative Increase, toxics, offsets]
2. The Owner/Operator shall maintain a log of daily crude unit throughput. This data shall be available to the District upon request. A report shall be submitted to the District on a monthly basis. [Basis: Banked POC credits]

VI. Permit Conditions

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VI. Permit Conditions

Condition# 1709

For Source S-129 Marine Bulk Plant (LD-129)

1. The Owner/Operator shall limit the total non-methane hydrocarbon emissions due to gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]
2. The Owner/Operator shall calculate the organic emissions as the sum of the volume of gasoline loaded on each vessel multiplied by the appropriate emission factor listed below. [Basis: Cumulative Increase]

	UNCONTROLLED	CONTROLLED
EMISSION FACTOR	LB VOC/1000 GAL	LB VOC/1000 GAL
Ship	1.80	0.22
Barge	3.40	0.30
3. The Owner/Operator shall design the John Zink abatement system, A-29, for at least 95%, by weight, abatement efficiency or the VOC emissions shall not exceed 2 lb/1,000 bbl loaded (non-methane). [Basis: Cumulative Increase]
4. The Owner/Operator shall maintain a log of each mogas loading across the dock, listing the date, vessel loaded, relief valve set pressure, maximum pressure developed, loading interval (time), and amount and type of material loaded. [Basis: Cumulative Increase]
5. The Owner/Operator shall install a continuous emission monitor and recorder for mass VOC emissions at A-29 discharge emission point, unless Owner/Operator can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with part 3. [Basis: Cumulative Increase]
6. The Owner/Operator shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]
7. The Owner/Operator shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: Cumulative Increase]
8. Any vessel loading that develops a pressure exceeding 80% of the lowest relief valve set pressure shall be considered uncontrolled. The Owner/Operator shall use the uncontrolled emission factor in part 2 to determine the emissions from such loading operations. If the Owner/Operator can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: Cumulative Increase]
9. The Owner/Operator shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers, etc. [Basis: Cumulative Increase]
10. If the testing in part 9 demonstrates a leakage rate greater than 5% of the total volume, the Owner/Operator shall calculate the emissions for any leak exceeding 5% of the total volume using worst case assumptions, highest vapor pressure and saturated vapor space.

VI. Permit Conditions

- The Owner/Operator shall then add the calculated emissions to the total used to determine compliance with part 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]
11. If the calculations required by part 10 result in exceeding part 1, the Owner/Operator shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]
 12. The Owner/Operator shall conduct a leak test on all vessel relief valves, hatch covers, gauging connections and any other potential leaking points for every vessel used in vapor-controlled loading more than twice per year. Testing shall be done on an average of every ten loads for each vessel. Testing shall be done during loading operations. If any emission point that reads greater than 10,000 ppm (as methane) as determined by a portable hydrocarbon analyzer (OVA), that load shall be considered uncontrolled. All subsequent loads by that vessel shall also be considered uncontrolled until a leak test result lower than 10,000 ppm is achieved. Leak test results shall be submitted to the BAAQMD with each quarterly report. Concentrations shall be read 1 centimeter downstream of any discharge point. If Owner/Operator can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: RACT, Cumulative Increase]
 13. Deleted. [Basis: Source test completed.]
 14. Deleted. [Basis: The District approved source testing facility prior to permit issuance.]
 15. Deleted. [Basis: The Owner/Operator installed and operated the equipment prior to banking of any emission reduction credits.]
 16. ~~Deleted [Basis: Condition is redundant with Standard Condition I.D.]The Owner/Operator shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: 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), the Owner/Operator shall install a particulate control device to control any emissions from this source. [Basis: Cumulative Increase]

Condition# 4882

For Sources S-188 Oil/Water Separator and S-189 Oil/Water Separator

1. The Owner/Operator shall vent the emissions from the Oil/Water/Sediment Separator (S-188) and the Induced Static Flotation Cell (S-189) to the ~~existing~~-flare gas recovery header -(S-189) at all times. [Basis: Cumulative Increase]
2. The Owner/Operator shall operate S-188 and S-189 within the designed capacities (700 gallons per minute or less). [Basis: Cumulative Increase]

VI. Permit Conditions

Condition# 7559

For Source S-133 (Spent Acid Tank)

1. The Owner/Operator shall route the VOC emissions emitted from the spent acid tank (S-133) to the flare gas recovery header (S-9). [Basis: Cumulative Increase]

Condition# 8348

For S-1007 Alkylation Unit Permit condition 8348, Parts 1 through 4 superseded by Condition 10574.

1. Deleted.
2. Deleted.
3. Deleted.
4. Deleted.

Condition# 8564

For Source S-57 Floating Roof Tank (S-57 no longer owned by Valero Refining Company. See Condition 22333 in B5574 permit.)

1. Deleted. S-57 no longer owned by Valero Refining Company. See Condition 22333 in B5574 permit.
2. Deleted. S-57 no longer owned by Valero Refining Company. See Condition 22333 in B5574 permit.
3. Deleted. Benzene Waste NESHAP 40 CFR Part 61 FF does not apply to S-57 crude oil tank.

Condition# 8771

For Source S-208 Coker Feed Drum D-920

1. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]]
3. The Owner/Operator shall abate the coker feed drum (S-208) by the flare gas recovery system including the flares (S-18 & S-19) at all times. [Basis: Cumulative Increase]
4. The Owner/Operator shall limit the material throughput at S-208 to no more than 29 million gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
5. To demonstrate compliance with Part #4, the Owner/Operator shall record the monthly material throughput at S-208 in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Cumulative Increase]

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Condition# 9296

For Sources S-40 Steam Boiler, S-158 Fixed Roof Tank, S-209 ~~Methanol~~/Ethanol Railcar Unloading Facility, S-210 Floating Roof Tank, S-211 Alkylate Debutanizer (at former MTBE Unit) and S-1024 Light Cat Naphtha Hydrofiner

Amended by Application # 18582, CARB Phase III for Sources:

<u>S-209</u>	<u>Ethanol Truck Unloading Rack</u>
<u>S-210</u>	<u>Ethanol Storage Tank, TK-1820</u>
<u>S-1003</u>	<u>Hydrocracker Unit</u>
<u>S-1011</u>	<u>Heavy Cat Naphtha Hydrofiner</u>
<u>S-1014</u>	<u>Cat Light Ends Unit</u>
<u>S-1024</u>	<u>Light Cat Naphtha Hydrotreater</u>

- A1. Deleted. [Basis: Superseded by BAAQMD Condition 18043]
- A2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- A3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- A4. ~~Deleted. [Basis: Completed, the MTBE unit was completely shutdown as part of the MTBE Phaseout Project] The MTBE unit shall be completely shutdown except for the MTBE tower used to remove butane from the Alkylate as part of the MTBE Phaseout Project. <Basis: Banking Credits>~~

S-209 ~~Methanol~~/Ethanol Unloading Station

- B1. The Owner/Operator shall only permit the transport trucks to travel on paved roads at all times inside of the facility. [Basis: Cumulative Increase]
- B2. All deliveries of ~~methanol~~/ethanol shall be from the transport trucks unless the Owner/Operator first receive prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]
- B3. Deleted. [Basis: The Owner/Operator paved the unpaved road prior to the operation of the MTBE facility.]
- B4. The Owner/Operator shall limit the total number of truck deliveries of ~~methanol~~/ethanol at the facility to no more than ~~29206,620~~ trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
- B5. The Owner/Operator shall deliver the dispensed ~~methanol~~/ethanol from the transport trucks to the S-210 ~~methanol~~/ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]
- B6. The Owner/Operator shall limit the total fugitive POC emissions from S-209 to no more

VI. Permit Conditions

- than 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
- B7. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- B8. Deleted. [Basis: Maximum leak concentrations are covered by Regulation 8, Rule 18.]
- B9. The Owner/Operator shall record the total number of truck deliveries of ~~methanol~~/ethanol ~~weekly~~ in a District approved log and totalized monthly. The Owner/Operator shall retain these records for a period of at least 5 years from date of entry. The log shall be kept on site and made available to District staff upon request. [Basis: Banked POC credits]

S-210 ~~Methanol~~/Ethanol Tank

- C1. The Owner/Operator limit the total throughput of product from S-210 to no more than ~~575,000~~1,303,000 barrels of ~~methanol~~/ethanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]
- C2. The Owner/Operator shall limit the total POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, to no more than 0.87 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]
- C3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- C4. Deleted. [Basis: Maximum leak concentration is covered by Regulation 8, Rule 18.]
- C5. The Owner/Operator shall only store ~~methanol~~/ethanol in the S-210 internal floating roof tank unless written authorization is received from the APCO allowing the use of another product in advance of any use of such product. [Basis: Cumulative Increase, Offsets, Toxics]
- C6. The Owner/Operator shall record the total monthly throughput of ~~methanol~~/ethanol withdrawn from the S-210 Storage Tank in a District approved log. This record shall be retained for a period of at least 5 years from date of entry. The log shall be kept on site and made available to District staff upon request. [Basis: Cumulative Increase]

S-40 Steam Boiler

- D1. The Owner/Operator shall equip the steam boiler (S-40) with Low NOx burners and flue gas recirculation. [Basis: BAAQMD Regulation 9-10, Offsets, Cumulative Increase]
- D2. The Owner/Operator shall limit the NOx concentration from S-40 to no more than 30 ppmv, dry, corrected to 3 % oxygen, as averaged over any consecutive 12 month period. (Basis: Offsets)
- D3. The Owner/Operator shall limit the CO concentration to no more than 400 ppmv, dry, corrected to 3 % oxygen, operating day average. [Basis: BAAQMD Regulation 9-10, Cumulative Increase]
- D4. The Owner/Operator shall operate the scrubber system upstream of S-40 Boiler at an annualized daily averaged (calendar year) total reduced sulfur concentration at or below 51 ppm, by volume. [Basis: Offsets]
- D5. Completed

VI. Permit Conditions

- D6. The Owner/Operator shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in part 4. These records shall be retained for a period of at least 5 years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: Banked POC credits]
- D7. The Owner/Operator shall operate ~~the~~ the S-40 Utility package Boiler at a firing rate at or below 218 million Btu per hour. (Basis: Cumulative Increase, Toxics)
- D8. Deleted. Basis: This part was not part of the NSR Authority to construct and was inadvertently left in this section. Furthermore, it is covered by BAAQMD Regulation 9-10-502.1.
- D9. Deleted. Basis: This part was not part of the NSR Authority to construct and was inadvertently left in this section. Furthermore, it is covered by BAAQMD Regulation 9-10-502.2.
- D10. Deleted. Basis: This part was not part of the NSR Authority to construct and was inadvertently left in this section. Furthermore, it is covered by BAAQMD Regulation 9-10-504.
- D11. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

S-1024 Light Cat Naphtha Hydrofiner

- E1. The total throughput of product at this source shall not exceed 24,000 barrels per day, as averaged over any calendar year. [Basis: Cumulative Increase, Toxics]
- E2. The total daily throughput of product at this source shall be recorded daily in a District approved log. This record shall be retained for a period of at least five years from the date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Recordkeeping]

CARB Phase III Fugitive Equipment

- F1. a. The Owner/Operator shall equip all light hydrocarbon control valves installed as part of the CARB Phase III with live loaded packing systems and polished stems, or equivalent. [Basis: BACT, Cumulative Increase, offsets]
- a. The Owner/Operator shall equip all flanges/connectors installed in the light hydrocarbon piping systems as a result of the CARB Phase III with graphitic-based gaskets unless the service requirements prevent this material. [Basis: BACT, Offsets, Cumulative Increase]
- b. The Owner/Operator shall equip all new light hydrocarbon centrifugal pumps installed as part of the CARB Phase III with a seal-less design or with dual mechanical seals with a heavy liquid barrier fluid, or equivalent. [Basis: BACT, Offsets, Cumulative Increase]
- c. The Owner/Operator shall integrate all new fugitive equipment installed as part of the CARB Phase III, in organic service, into the owner's fugitive equipment monitoring and repair program. [Basis: Compliance monitoring]
- F2. The Owner/Operator shall submit a count of installed pumps, valves, and flanges/

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connectors every 180 days until completion of the project. For flanges/connectors, the owner/operator shall also provide a count of the number of graphitic-based and non-graphitic gaskets used. The Owner/Operator has been permitted to install fugitive components (112 valves, 86 flanges/connectors, 2 pumps, 6 PRDs) with a total POC emission rate of 0.055 TPY for the entire CARB Phase III Project, the plants cumulative emissions for the CARB Phase III Project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The Owner/operator may have enough remaining contemporaneous emissions reduction credits (ERCs) to cover any increase in POC fugitive emissions beyond the original projection. If not, the Owner/ Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after the submittal of the final POC fugitive equipment count for the CARB Phase III Project. If the actual component count is less than the predicted, at the completion of the CARB Phase III Project, the total will be adjusted accordingly. Any ERC's applied by the facility in excess of the actual total fugitive emissions will be credited back to Owner/Operator prior to issuance of the permits. [Basis: Cumulative Increase, Toxics]

Condition# 9584

For Source S-158 Fixed Roof Storage Tank

AN [16327](#) (11/13/2007)

1. The Owner/Operator shall limit the throughput at the storage tank S-158 to no more than 30,000 gallons of perchloroethylene during any rolling 12 consecutive month period. [Basis: Cumulative Increase, toxics]
2. To demonstrate compliance with Part #1, the Owner/Operator shall maintain monthly throughput records of perchloroethylene at S-158 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 9897

For Source S-11 Activated Carbon Bin TK-2061

1. The Owner/Operator shall limit the receipt of the activated carbon at the Activated Carbon Bin Tk-2061 (S-11) to no more than 292 tons during any rolling 12 consecutive month period.[Basis: Cumulative Increase]
2. To demonstrate compliance with Part #1, the Owner/Operator shall record the monthly receipt of the activated carbon, totaled on a yearly basis, at S-11 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 10574 For Sources S-21, S-22, S-151, S-220, S-227, S-1007, S-1011, S-1020, S-1021, S-1022, S-1023, S-1024, S-1026 and S-1058

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CLEAN FUELS PROJECT
APPLICATION 10392

APPLICATION 3782 Alkylation Production Project

APPLICATION 13201, Correct NSPS J H2S Concentration (Oct 2005)

APPLICATION 16937 (Jan 2009), VIP Amendments. Condition superseded by Condition 24197 upon startup of S-1061, Hydrogen Reformer Furnace

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
- F. The Owner/Operator shall install, maintain, calibrate and operate each CEM in accordance with all applicable District regulations. For Part number 15, the Owner/Operator shall include a data logging device that averages the CEM concentration readings for the Refinery fuel gas over the 24-hour time period (calendar day). [Basis: BACT]

Recordkeeping and Monthly Reporting

- G. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. The Owner/Operator shall retain all records for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: [Basis: BACT]

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Fuel usage type and amount for:
S-220 Hot Oil System
S-21 Hydrogen Reformer Furnace
S-22 Hydrogen Reformer Furnace

CEM data and CEM indicated excesses;
Fuel gas H₂S concentration (24-hour Average);
Fuel gas total reduced sulfur Concentration (24-hour Average)
Fuel gas usage rates (cubic feet/day)
Fuel heat content, HHV [24-hour average]
Actual Firing Rate (Btu/month)
Miscellaneous

- H. The Owner/Operator shall vent any process vessel depressurization gas to a control device with an overall capture and destruction efficiency of 95%, on a mass basis. [Basis: Cumulative Increase]
- I. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

FUGITIVES

S-1020 Heartcut Tower
S-1021 Heartcut Saturation Unit
S-1022 Catalytic Reformer T90 Tower
S-1023 Catalytic Naphtha T90 Tower
S-1024 Light Catalytic Naphtha Hydrotreater
S-1026 C5/C6 Splitter
S-220 Hot Oil System
S-227 Storage Tank
Deleted. [Basis: S-228 Storage Tank was never installed.]
Deleted. [Basis: S-229 Storage Tank was never installed.]
S-1007 Alkylation Unit
S-1011 Heavy Catalytic Naphtha Hydrotreater
S-1058 Virgin Light Ends Unit
S-151 Waste Water Treatment Unit
S-1003 Hydrocracking Unit

1. The Owner/Operator shall equip any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics]
- a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency,

VI. Permit Conditions

or the barrier fluid shall be operated at a pressure higher than the process stream pressure.

b) equipped with a "canned" pump

c) equipped with a magnetically driven pump

2. Deleted.

3. Deleted.

4. The Owner/Operator shall equip all hydrocarbon flow control valves installed as part of the Clean Fuels Project with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]

5. Except as required by Part number 4, the Owner/Operator shall equip all other hydrocarbon valves greater than 2 inches installed as part of the CFP with 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. [Basis: Inspection frequency of valves covered by Regulation 8, Rule 18.]

7. The Owner/Operator shall equip all flanges installed in the piping systems as a result of the CFP with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. Deleted rest of condition. [Deletion Basis: Leak repair requirements are covered under Regulation 8, Rule 18.] [Basis: BACT, Offsets, Cumulative Increase, Toxics]

8. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of the CFP with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The Owner/Operator shall vent all reciprocating compressors installed in hydrocarbon service as part of the CFP to a control device having at least a 95% control efficiency. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR PART 60, Subpart GGG. [Basis: BACT, Offsets, Cumulative Increase, Toxics, NSPS]

9. Completed

10. Deleted. Redundant with Regulation 8-28-302.

11. The Owner/Operator shall fit all process drains installed as part of the CFP with a "P" trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]

12. The Owner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]

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FUEL GAS SYSTEM

13. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than any of the following: (a) 100 ppmv H₂S, averaged over a 24-hour calendar day and (b) the H₂S concentration limitation specified in NSPS 40 CFR Part 60, Subpart J. [Basis: Cumulative Increase, BACT, NSPS]
14. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]
15. The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H₂S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21, S-22 and S-220) [Basis: Monitoring and Records].
16. The Owner/Operator shall calculate and record the 24-hour average H₂S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts No. 13 and 14 and 17, based on the previous 24 individual hourly averages. On a quarterly basis, the Owner/Operator shall report for the following S-220, S-21 and S-22:
 - (a) the daily fuel consumption,
 - (b) daily averaged H₂S content of the refinery fuel gas
 - (c) daily averaged total reduced sulfur content
 - (d) quarterly daily averaged H₂S content
 - (e) quarterly daily averaged total reduced sulfur content
 - (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]

COMBUSTION SOURCES

General Combustion

The following are general requirements for all new or modified combustion sources associated with the Clean Fuels Project:

17. The Owner/Operator shall only fire in all new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H₂S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]
18. The Owner/Operator shall limit the total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP to no more than the following annual limits: [Basis: BACT, Cumulative Increase, Offsets] [Basis: SO₂ Contemporaneous offset credits for SO₂ and PM₁₀ in

VI. Permit Conditions

Application #18888=>]

S-21, S-22 and S-220

Pollutant	Annual (tons)
NO _x (1)	17.11 (S-220 only)
CO	134.904
SO ₂	59.358
PM ₁₀	26.981
POC	15.514

Note 1. Deleted. [Basis: There is no NO_x increase in emissions from the S-21 and S-22 Hydrogen Heaters.]

19. The Owner/Operator shall equip the three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Regulation 9-10-502.2]
20. The Owner/Operator shall calculate and totalize NO_x, CO, POC, SO₂ and PM₁₀ emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be:

NO_x: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance

CO: 0.0200 lb/MMBtu

POC: 0.0023 lb/MMBtu

SO₂: 0.0069 lb/MMBtu

PM₁₀: 0.0040 lb/MMBtu

The Owner/Operator shall retain the results on site for a period of at least five years and make them available to District staff upon request.
[Basis: BACT, Cumulative Increase]

21. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S-21, S-22 and S-220) or the three abatement devices (A-43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-1-301/SIP 6-301]

VI. Permit Conditions

22. For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. ~~The 24 hour period does not apply during the initial startup of the Units.~~ [Basis: Cumulative Increase]

S-220 Hot Oil System

23. Except during startup and shutdown, the Owner/Operator shall limit emissions of nitrogen oxides from the S-220 Hot Oil System to no more than 10 ppmv, dry, corrected to 3% oxygen, (0.0118 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, Offsets, Cumulative Increase]
24. For the S-220 Hot Oil System, the Owner/Operator shall limit the CO emissions to no more than 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MM Btu) averaged over 8 hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]
25. The Owner/Operator shall abate S-220 at all times by A-45 Selective Catalytic Reduction System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]
26. Except during periods of startup and shutdown, the Owner/Operator shall limit ammonia emissions (ammonia slip) from the SCR unit (A-45) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. [Basis: BACT, Offsets, Cumulative Increase]
27. For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]
28. Completed
29. The Owner/Operator shall limit the total combined heat input for S-220 to no more than 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]
30. The Owner/Operator shall limit the firing rate of the S-220 MRU Hot Oil Furnace to no more than 351 million Btu per hour (Maximum firing rate). (Basis: Cumulative Increase, Toxics)
- S-21 Hydrogen Reformer Furnace, F-301
S-22 Hydrogen Reformer Furnace, F-351
31. For the S-21 and S-22 furnaces, the Owner/Operator shall limit the emissions of nitrogen oxides based on CEM data to no more than 60 ppmv, dry, corrected to 3% oxygen, (0.0708 lb/MMBtu) averaged over any consecutive 24 hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the Owner/Operator shall limit the emissions of nitrogen oxides to no more than 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method

VI. Permit Conditions

- outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]
32. For the S-21 and S-22 furnaces, the Owner/Operator shall limit emissions of CO to no more than 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]
 33. The Owner/Operator shall equip Sources S-21 and S-22 with low NOx burners. The Owner/Operator shall operate the low NOx burners systems in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]
 34. Not Implemented
 35. Not Implemented
 36. Completed
 37. The Owner/Operator shall limit the total combined heat input for S-21 and S-22 to no more than 106 million therms (10.6 trillion Btus) in any 365 consecutive day period. [Basis: Cumulative Increase, Offsets]
 38. The Owner/Operator shall limit the firing rate of the S-21 Hydrogen Reforming Furnace to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)
 39. The Owner/Operator shall limit the firing rate of the S-22 Hydrogen Reforming Furnace to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)
 40. Deleted. [Basis: The Owner/Operator has installed the continuous emission monitor for S-21 for NOx and O2.]
 41. Deleted. [The Owner/Operator has installed the continuous emission monitor for S-22 for NOx and O2.]

TANKAGE

S-227 175,000 Barrel Fixed Roof Tank

42. The S-227 Pentane Storage Tank ~~installed by the Owner/Operator~~ shall be ~~a fixed roof tank~~ connected to the A-46/A-47 vapor recovery system. ~~NSPS requirements of 40 CFR 60, Subpart Kb will be applied to this tank.~~ [Basis: Cumulative Increase, Offsets, Toxics]
43. The Owner/Operator shall operate Tank S-227 with a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]
44. The Owner/Operator shall not store any material in S-227 storage tank, other than the materials specified in this application for the tank, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Owner/Operator shall notify the District, in writing,

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- of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]
45. The Owner/Operator shall vent all POC emissions from tank cleaning, degassing, or product changeout to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]

TOXICS

46. Completed. [Basis: The Owner/Operator has performed the necessary source tests for toxics.]

OFFSETS (DISTRICT EMISSIONS BANK)

47. Completed. [Basis: The Owner/Operator has met their offset obligation for NO_x, POC, SO₂ and PM₁₀.]
48. Completed. [Basis: The Owner/Operator has paved two heavily traveled roads in the Refinery to provide contemporaneous emissions reduction for PM₁₀.]
49. Completed. . [Basis: The Owner/Operator has made the paved road wide enough to for vehicles to pass without excursion onto the unpaved shoulders.]
50. Deleted. [Basis: No longer required to monitor mass emissions from the S-21 and S-22 Hydrogen Furnaces through a condition due to required monitoring of furnaces under Regulation 9, Rule 10.]
51. The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels. (Basis: BACT, Cumulative Increase)
52. The Alkylate Production Project in Application 3782, when installed, shall consist of no more than ~~12600~~ valves, ~~141200~~ connectors/flanges, ~~25~~ pressure relief valves and ~~32~~ pumps. The POC emission from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)

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Condition# 10633

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

1. The Owner/Operator shall record the total daily throughput of product from S-97 in a 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]

Condition# 10797

For Source S-207, Floating Roof Tank

1. The Owner/Operator shall limit the total release of emissions from this S-207 storage tank to no more than 4.62 tons of POC emissions in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
2. Deleted [Basis: MTBE Phaseout Application 2035]
3. Deleted. [Basis: The inspection and maintenance program for fugitive components are covered under Regulation 8, Rule 18.]
4. The Owner/Operator shall store only mogas/components in the S-207 External Roof Storage Tank. [Basis: Cumulative Increase, BACT, Offsets, Toxics]
5. Deleted. [Basis: MTBE Phaseout Application 2035]
6. The Owner/Operator shall limit the total throughput of mogas/components at S-207 to no more than 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
7. The Owner/Operator shall record the total daily throughput of mogas/components withdrawn from the S-207 Storage Tank in a District approved log. This record shall be retained for a period of at least five years from date of entry. The log shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]
8. Deleted. [Basis: MTBE Phaseout Application 2035]
9. Deleted. [Basis: MTBE Phaseout Application 2035]

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Condition# 11030

For Sources S-3 and S-4 Furnaces

APPLICATION 16937 (Jan 2009), VIP Amendments . Condition deleted upon startup of Upon Startup of S-1059 and S-1060 PS Furnaces

1. The Owner/Operator shall limit the start-up of the CO Furnaces (S-3 and S-4) to no more than 72 hours. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the shutdown of the CO Furnaces (S-3 and S-4) to no more than 120 hours. [Basis: Cumulative Increase]
3. When the Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 150 ppm, dry at 3% oxygen, based on an operating day average. [Basis: BARCT, Cumulative Increase]
4. To demonstrate compliance with Parts #1 and 2, the Owner/Operator shall maintain the start-up time and shutdown time of S-3 and S-4 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]
5. Deleted. [Basis: The Owner/Operator has conducted the District approved source test on S-3 and S-4 to demonstrate compliance with Part #3. The Owner/Operator has provided the source test report to the District.]
6. Effective from May 31, 1995, the Owner/Operator shall abate the NOx emissions from the CO Furnaces (S-3 and S-4) at all times by the A-52 and/or A-53 Thermal DeNOx Systems. [Basis: Cumulative Increase]
7. The Owner/Operator shall limit the total consumption of refinery fuel gas plus CO at each source to no more than the following:
 - S-3 CO Furnace: 46.3 million therms per year (Basis: Cumulative Increase)
 - S-4 CO Furnace: 22.7 million therms per year (Basis: Cumulative Increase)

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Condition# 11879

For Source S-131, S-150, S-194, S-195, S-197, S-198, S-199 and S-200 Wastewater Treatment Equipment abated by A37 Carbon Canisters and A-57 Thermal Oxidizer Application 16938/16939 (Title V) Consolidated WWTP Conditions; Application 15934/19793 (Title V) Diversion Area Thermal Oxidizer A-65 S-150 Sour Wastewater Tank

1. The Owner/Operator shall abate ~~this~~ sources S-131, S-150, S-194, S-195, S-197, S-198, S-199 and S-200 by ~~the A-36 and A-37~~ Carbon Canisters (two 700 lb (minimum) canisters in series) and/or the A-57 Thermal oxidizer at all times when the sources ~~is~~ are in service, except during inspection, maintenance and wastewater sampling. [~~Basis: Cumulative Increase~~]
2. The Owner/Operator shall limit the total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 to not exceed 3000 gallons per minute. [~~Basis: Cumulative Increase~~]
3. The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. [~~Basis: BAAQMD 2-2-112~~]
4. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. [~~Basis: BAAQMD 2-2-112~~]
5. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. [~~Basis: NSPS and NESHAPS~~]
6. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Parts 3, 4, 5, and 10, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. [~~Basis: Regulation 2-1-403~~]
7. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the oxidation temperature in A-57. [~~Basis: Temperature Monitoring~~] This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with

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- manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 46. [(Basis: Temperature Monitoring and Regulation 1-521)]
8. The Owner/Operator shall equip the A-37 Carbon Canisters with District approved analyzers that continuously indicate and record the flow rate and total hydrocarbon VOC concentration in the outlet gas stream of the second canister. [(Basis: Cumulative Increase)]
 9. The Owner/Operator shall install a flow indicator or equivalent device on the vent streams from S-131, S-150, S-194, S-195, S-197, S-198, S-199 and S-200 to the A-37 Carbon Canisters and/or the A-57 Thermal Oxidizer to ensure that the vapors from the wastewater sources are being routed to the control equipment. [(Basis: Cumulative Increase)]
 10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 and from the Thermal Oxidizers A-57 and A-65 emitted from the carbon canisters (A-36 and A-37) and the thermal oxidizer A-57 to no more than 15 pounds per day, as averaged over one month. [(Basis: Regulation 8, Rule 2)]
 11. To demonstrate compliance with Part 10, the Owner/Operator shall determine the NMHC from the carbon canisters using the flow rates and NMHC total hydrocarbon analyzer readings concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content concentration 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 concentration can also be obtained by actual gas samples. [(Basis: Cumulative Increase)]
 12. To demonstrate compliance with Part 10, the eOwner/eOperator shall determine the NMHC emissions from A-57 and A-65 Thermal Oxidizers shall be based upon the results of at the District approved initial source test. [(Basis: Cumulative Increase)]
 13. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [(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. Carbon canister dDaily flow rate and outlet NMHC concentrations.

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d. Carbon canister changeout dates.

e. Total volume of gas recorded between carbon canister changeouts.

- ~~1. The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)~~
- ~~2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)~~
- ~~3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)~~
- ~~4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)~~
- ~~5. The Owner/Operator shall equip A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the oxidation temperature in A-57. (Basis: Temperature Monitoring)~~
- ~~6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)~~
- ~~7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable excursions]~~
- ~~8. Deleted. Source Test completed August 26, 2004.~~
- ~~9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]~~
- ~~10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]~~
- ~~11. The Owner/Operator shall determine NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in~~

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- ~~accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]~~
- ~~12. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]~~
- ~~a. Daily NMHC emission rate in pounds per day.~~
 - ~~b. Daily NMHC emission rate, as averaged over one month, in pounds per day.~~
 - ~~c. Daily flow rate and outlet NMHC concentration.~~
 - ~~d. Carbon canister changeout date.~~
 - ~~e. Total volume of gas recorded between carbon canister changeout.~~
- ~~13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]~~
- ~~14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]~~
- ~~15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]~~
- ~~16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]~~

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Condition# 11880

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

Abated by A-36 Carbon Canisters and A-65 Thermal Oxidizer

Updated by Application 15934; Modified by Application 19793 (Title V) Diversion Area

Thermal Oxidizer A-65

1. The Owner/Operator shall abate S-193, S-196, S-205 and S-206 this source using two 1200 lb (minimum) carbon canisters in series (A-36) ~~in series and/or A-65 thermal oxidizer at all times~~ at all times when the sources are in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 and Thermal Oxidizers A-57 and A-65 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]
3. To demonstrate compliance with Part 2, the Owner/Operator shall determine the NMHC emissions from the carbon canisters using the flow rates and NMHC concentration total hydrocarbon analyzer readings at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]

To demonstrate compliance with Part 2, the Owner/Operator shall determine the NMHC emissions from A-57 and A-65 Thermal Oxidizers based upon the results of the District-approved initial source tests [Basis: Cumulative Increase]
4. To demonstrate compliance with Part ~~(2)~~, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]
 - a. Daily NMHC emission rate in pounds per day.
 - b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
 - c. Carbon canister d~~D~~aily flow rates and outlet NMHC concentrations.
 - d. Carbon canister changeout dates.
 - e. Total volume of gas recorded between carbon canister changeouts.
5. Deleted [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]~~The Owner/Operator shall conduct a quarterly~~

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- ~~inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]~~
6. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
 7. ~~The Owner/Operator shall use a monitoring device that continuously indicates and 7. — The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase~~
 8. The Owner/Operator shall not fire more than 284,950 gallons of propane at the Thermal Oxidizer A-65 during any consecutive 12 month periods. [Basis: cumulative increase]
 9. The Owner/Operator shall not emit more than 50 ppmvd NO_x at 15% O₂ from Thermal Oxidizer A-65. [Basis: RACT, Source Test Method 13A]
 10. The Owner/Operator shall not emit more than 350 ppmvd CO at 15% O₂ from Thermal Oxidizer A-65. [Basis: RACT, Source Test Method 6]
 11. The Owner/Operator shall operate A-65 at a minimum temperature of 1400 degrees F. The District may adjust this minimum temperature, if source test data demonstrates that an alternate temperature is necessary for or capable of maintaining compliance with Parts 2, 9 and 10 above. [basis: Regulation 2-1-403]
 12. To determine compliance with the temperature requirement in Part 11, the Owner/Operator shall equip A-65 with a temperature measuring device capable of continuously measuring and recording the temperature in A-65. The Owner/Operator shall install, and maintain the temperature measuring device in accordance with manufacturer's recommendations. [basis: Regulation 2-1-403]
 13. The temperature limit in Part 11 shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller setpoint complies with the temperature limit. An Allowable Temperature Excursion is one of the following:
 - a. A temperature excursion not exceeding 20 degrees F; or
 - b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or

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c. A temperature excursion for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met.

i. the excursion does not exceed 50 degrees F;

ii. the duration of the excursion does not exceed 24 hours; and

iii. the total number of such excursions does not exceed 12 per calendar year.

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)

14. For each Allowable Temperature Excursion that exceeds 20 degrees 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 five (or two years) years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

a. Temperature controller setpoint;

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

c. Measured temperature during each Allowable Temperature Excursion;

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

e. All strip charts or other temperature records.

(basis: Regulation 2-1-403)

15. The owner/operator shall maintain the following records for each month of operation of the Thermal Oxidizer A-65: [Basis: Recordkeeping]

a. The hours and times of operation and which sources A-65 is controlling

b. Temperature of A-65

All measurements, records and data required to be maintained by the operator shall be retained and made available for inspection by the District for at least five years following the date the data is recorded.

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Condition# 11882

Consolidated with 11879 per A/N #16938 (February 2008)

~~For Sources S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056~~

- ~~1. The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD Regulation 2-2-112)~~
- ~~2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD Regulation 2-2-112)~~
- ~~3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)~~
- ~~4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)~~
- ~~5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]~~
- ~~6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)~~
- ~~7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable excursions.]~~
- ~~8. Deleted. Source Test completed August 26, 2004.~~
- ~~9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]~~
- ~~10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]~~
- ~~11. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content~~

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- ~~of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase,]~~
- ~~12. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]~~
- ~~a. Daily NMHC emission rate in pounds per day.~~
 - ~~b. Daily NMHC emission rate, as averaged over one month, in pounds per day.~~
 - ~~c. Daily flow rate and outlet NMHC concentration.~~
 - ~~d. Carbon canister changeout date.~~
 - ~~e. Total volume of gas recorded between carbon canister changeout.~~
- ~~13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]~~
- ~~14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]~~
- ~~15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]~~
- ~~16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]~~

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Condition# 11883

For Source S-201 (Truck Loading Operation)

1. The Owner/Operator shall abate Source S-201 using a vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]
2. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

Condition# 11884

For Source S-202 (Truck Loading Operation)

1. The Owner/Operator shall abate S-202 using a vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]
2. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

Condition# 11888

Consolidated with 11879 per A/N #16938 (February 2008)

~~For Source S-131 Wastewater Sludge Tank TK-2069~~

- ~~1. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)~~
- ~~2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)~~
- ~~3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)~~
- ~~4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)~~
- ~~5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: Monitoring]~~
- ~~6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be~~

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- ~~maintained in accordance with manufacturer's recommendations. The Owner/Operator shall use this temperature monitor to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)~~
- ~~7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable excursions.]~~
 - ~~8. Deleted. Source Test completed August 26, 2004.~~
 - ~~9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]~~
 - ~~10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: RACT]~~
 - ~~11. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby services, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]~~
 - ~~12. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on-site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]~~
 - ~~a. Daily NMHC emission rate in pounds per day.~~
 - ~~b. Daily NMHC emission rate, as averaged over one month, in pounds per day.~~
 - ~~c. Daily flow rate and outlet NMHC concentration.~~
 - ~~d. Carbon canister changeout date.~~
 - ~~e. Total volume of gas recorded between carbon canister changeout.~~
 - ~~13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure vacuum valve, and appurtenance in vapor services on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]~~
 - ~~14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]~~
 - ~~15. Deleted. [Basis: The inspection and maintenance program for fugitive components is~~

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- ~~covered under Regulation 8, Rule 18.]~~
- ~~16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]~~

Condition# 12727

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

APPLICATION 16937 (Jan 2009), VIP Amendments. Condition deleted upon startup of S-1059 and S-1060 PS Furnaces

1. The Owner/Operator shall limit the throughput of ESP fines at the Vacuum Conveying System (S-232) to no more than 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the throughput of ESP fines at the ESP Fines Storage Bin (S-233) to no more than 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
3. The Owner/Operator shall properly abate the operation of S-232 by the Vacuum Filter (A-54). [Basis: Cumulative Increase]
4. The Owner/Operator shall properly abate the operation of S-233 by the Bin Filter (A-55). [Basis: Cumulative Increase]
5. To demonstrate compliance with Parts #1 and 2, the Owner/Operator shall maintain the monthly throughput records of ESP fines at S-232 and S-233 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 13045

Deleted Source S-143 removed from Service
For Source S-143 Fixed Roof Tank

- ~~1. The Owner/Operator shall limit the throughput of corrosion inhibitor at the Corrosion Inhibitor Tank (S-143) to no more than 15,000 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]~~
- ~~2. To demonstrate compliance with Part #1, the Owner/Operator shall record the throughput of corrosion inhibitor at S-143 monthly in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]~~

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Condition# 13319

Consolidated with 11879 per A/N #16938 (February 2008)

For Sources ~~S-194 Oil/Water/Sediment Separator 2006~~

~~S-195 Oil/Water/Sediment Separator 2056~~

~~S-197 Induced Static Flotation Cell 2007~~

~~S-198 Induced Static Flotation Cell 2057~~

- ~~1. The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x) from the A-57 Thermal Oxidizer to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)~~
- ~~2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 Thermal Oxidizer to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)~~
- ~~3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)~~
- ~~4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature) as averaged over any consecutive 3-hour period. If source test data demonstrate that an alternate temperature is necessary for maintaining compliance with Part #3, the Owner/Operator shall maintain the oxidation temperature at or above the minimum temperature limit, averaged over any consecutive 3-hour period, as determined by the source test. (Basis: Regulation 2-1-403)~~
- ~~5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]~~
- ~~6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)~~
- ~~7. Deleted. [Basis: Replaced with 3-hour averaging in Part 4 with no allowable temperature excursions.]~~
- ~~8. Deleted. Source Test completed August 26, 2004.~~
- ~~9. The Owner/Operator shall limit the total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 to not exceed 3000 gallons per minute. [Basis: Cumulative Increase]~~
- ~~10. A Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]~~
- ~~11. The Owner/Operator shall conduct a quarterly inspection and maintenance program on~~

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- any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
- ~~12. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]~~
- ~~13. Deleted. [Basis: The Owner/Operator has replaced the API Separator (S-47) and two dissolved air flotation tanks (S-152 and S-153).]~~
- ~~14. The Owner/Operator shall abate this source by two 700-lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]~~
- ~~15. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]~~
- ~~16. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District-approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]~~
- ~~17. To demonstrate compliance with Part 15, the Owner/Operator shall maintain the following records in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District-approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]~~
- ~~a. Daily NMHC emission rate in pounds per day.~~
- ~~b. Daily NMHC emission rate, as averaged over one month, in pounds per day.~~
- ~~c. Daily flow rate and outlet NMHC concentration.~~
- ~~d. Carbon canister changeout date.~~
- ~~e. Total volume of gas recorded between carbon canister changeout.~~
- ~~18. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]~~

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Condition# 14318

For Source S-23 Process Oil Furnace

A/N 13201, Correct NSPS J H2S Concentration, (Oct 2005)

1. The Owner/Operator shall limit the emissions of NMHC from S-23 (Furnace F-401) to no more than 10 lb/day. [Basis: BACT]
2. The Owner/Operator shall limit the emission of NO_x to no more than 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]
3. The Owner/Operator shall continuously monitor the NO_x and oxygen in accordance with the Manual of Procedures. [Basis: Cumulative Increase]
4. Owner/Operator shall limit the firing of S-23 furnace to at or below 200 x million BTU/Hr (maximum firing rate) heat input for any one hour period and 185 x million BTU/Hr average for a 24 hour period based on the gross heating value of the fuel gas. This 24 hour period shall be midnight to midnight. [Basis: Cumulative Increase]
5. As per Regulation 10-14, the Owner/Operator shall continuously monitor the hydrogen sulfide and shall limit the hydrogen sulfide to no more than the H₂S concentration limitation specified in NSPS 40 CFR Part 60, Subpart J.- [Basis: Cumulative Increase, BAAQMD 10-14]
6. ~~Deleted [Basis: Access and availability to records is covered by Title V Permit Standard Condition E.1 and BAAQMD 1-441] The Owner/Operator shall make all data pertaining to (1), (2), (3), (4), and (5) above readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verification through Records]~~

Condition# 15512

For Source S-1010 Hydrogen Plant

A/N 17877, Source Test Requirements for Atmospheric Venting (August 2008)

1. The Owner/Operator shall route the precursor organic compounds from the deaerator vents associated with the operation of S-1010 Hydrogen Plant downstream to the S-40 and/or S-41 boilers ~~or to atmosphere at all times in which the source is in operation.~~ Whenever the deaerator vents are routed to atmosphere with S-1010 in operation, the Owner/Operator shall conduct a source test on the vents within 60 days of initially routing the vents to atmosphere and quarterly thereafter, to demonstrate compliance with Regulation 8 Rule 2 Section 301. The Owner/Operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The Owner/Operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. The Owner/Operator shall submit the source test results to the District staff no later than 60 days after the source test. After submitting the results of four consecutive compliance source tests of the deaerator vents, the Owner/Operator may request an annual source test upon District approval. [Basis: Regulation 8-2-301]~~[RACT]~~

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Condition # 16027

For Source S-237 (SG-1032), Boiler

A/N 13201, Correct NSPS J H2S Concentration, (Oct 2005)

A/N 16658 (Sept 2007)

1. Fugitive Emissions Components: The Owner/Operator shall install all hydrocarbon valves greater than 2 inches as one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. All flanges installed in the piping systems by the Owner/Operator shall be equipped with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [[Basis: BACT]
2. Completed.
3. Fuel Gas System: The Owner/Operator shall limit the refinery low-pressure fuel gas to no more than any of the following: (a) 100 ppmv H₂S, averaged over a 24-hour calendar day and (b) the H₂S concentration limitation specified in NSPS 40 CFR Part 60, Subpart J. [Basis: Cumulative Increase, BACT, NSPS]
4. Fuel Gas System: Owner/Operator shall limit the refinery low-pressure fuel gas to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four-quarter period. [Basis: BACT, Contemporaneous offsets for S₀₂ and PM₁₀ emissions]
5. Fuel Gas System: The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H₂S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. [Basis: Cumulative Increase]
6. Fuel Gas System: The Owner/Operator shall calculate and record the 24-hour average H₂S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts number 3 and 4, based on the previous 24 individual hourly averages. On a quarterly basis, the Permit Holder shall report: (a) the daily fuel consumption at S-237, (b) daily averaged H₂S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H₂S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Cumulative Increase]
7. The Owner/Operator shall only fire S-237 Boiler natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H₂S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. [Basis: Cumulative Increase, Toxics, offsets]

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8. The Owner/Operator shall limit total emissions from this combustion source (S-237) including startups and shutdowns, to no more than the following annual limits: [Basis: Cumulative Increase, Offsets>

Pollutant	Annual (tons)
NOx	13.278
CO	44.721
SO2	8.644
PM10	3.132
POC	2.881

Combustion emissions shall be calculated using the following emission factors:

NOx:	Summation of daily emissions using CEM data
CO	0.0200 lb/MMBtu
SO2	0.0069 lb/MMBtu
PM10	0.0025 lb/MMBtu
POC	0.0023 lb/MMBtu.

9. The Owner/Operator shall equip the S-237 Boiler with a District approved continuous fuel flow monitor and recorder in order to determine fuelconsumption. (This is a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring and Records>
10. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. [BAAQMD 6-1-301/SIP 6-301]
11. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to boiler dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units.S-237 Boiler. [Basis: Cumulative Increase, offsets, operational allowances>
12. Except during startup and shutdown, the Owner/Operator shall limit the emissions of nitrogen oxides from the S-237 to no more than 9 ppmv, dry, corrected to 3% oxygen, (0.0106 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, offsets>
13. For the S-237 Boiler, the Owner/Operator shall limit the CO emissions to no more than 50 ppmv, dry, corrected to 3% oxygen, (0.0357 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. Demonstration of compliance will be based on source test data [Basis: BACT]
14. The Owner/Operator shall abate S-237 at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT]
15. Except during periods of startup and shutdown, Owner/Operator shall limit the ammonia

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emissions (ammonia slip) from the SCR unit (A-58)- to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. Demonstration of compliance shall be based on initial source test data.

[Basis: Cumulative Increase, Monitoring, Toxics]

16. The Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2.

[Basis: Monitoring and Records]

17. Completed.

Throughput Limitation

18. The Owner/Operator shall limit the total combined heat input for S-237 to no more than 2,505,360 million BTUs (HHV) in any 365 consecutive day period.

[Basis: Cumulative Increase, Offsets]

19. The Owner/Operator shall limit the total combined heat input for S-237 to no more than 7560 million BTUs in any calendar day period. [Basis: Cumulative Increase]

20. Deleted. (Basis: same as Condition 16386, Part 1)

21. Deleted. (Basis: same as Condition 16386, Parts 2 and 3)

22. The Owner/Operator shall conduct a District-approved source test on an annual basis on Sources S-237 to demonstrate compliance with the limit in part 13 of this condition. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less~~ later than ~~45~~ 60 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 2-6-503]

Condition 16186 is obsolete. The source no longer exists.

Condition # 16386

For Sources S-37, (SG-702), Waste Heat Boiler, S-45, (GT-702) Process Gas Turbine

1. Except during startup and shutdown, the Owner/Operator shall limit the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, to no more than 9 ppmv, dry, @ 15%

oxygen, in any consecutive three hour averaging period. <[Permanency of Contemporaneous Banking Credit, Offsets]>

2. Deleted. [Basis: NOx limitation is covered by Regulation 9, Rule 9.]

3. Except during startup and shutdown, the Owner/Operator shall abate the emissions from the S-45 gas Turbine using the A-51 Selective Catalyst Reduction System at all times in which it is operational. [Basis: Permanency of Contemporaneous Banking Credit,

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- Offsets>]
4. The Owner/Operator shall abate the emissions from the S-37 Steam Generator Gas Turbine using the A-51 Selective Catalyst Reduction System at all times in which it is in operation, except for the following: [Basis: Permanency of Contemporaneous Banking Credit, Offsets>—]
 - A. During periods of startups and shutdowns.
 - B. Infrequent periods not to exceed 45 days in any consecutive three year period.
 5. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24 hour period does not apply during the initial startup of the units. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>]
 6. The Owner/Operator shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx) emissions from this combined system consisting of S-45 and S-37. [Basis: Regulation 9, Rule 9, enforceability of contemporaneous banking credit, offsets>]
 7. The Owner/Operator shall limit the total emissions of nitrogen oxides (NOx) emissions for S-37 Steam Generator- to no more than 23.851 tons per calendar year. [Basis: Permanency of Actual Emissions Reduction for S-237>]
 8. To demonstrate compliance with the above conditions, the Owner/Operator shall maintain the following records in a District approved log for S-37. These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. [Basis: Banked POC credits requirements
 - a. Daily usage of refinery fuel gas at S-37, in cubic feet
 - b. Daily usage of refinery fuel gas at S-45, in cubic feet
 - c. Daily HHV of refinery fuel gas
 - d. Daily mass emissions from the combined exhaust, as measured by the CEM
 - e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data
 - f. Computation of monthly and annual mass emissions from S-37
 - g. Days of startup, shutdown and S-37 singular operations.

Condition #17835

For Source S-1027: Light Ends Rail Rack A/N 2390 (Mar 2006)

1. The Owner/Operator of the Light Ends Rail Rack (S-1027) shall handle no more than

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- 22,500 barrels per day, as averaged over the quarterly period. [Basis: Cumulative Increase]
2. The Owner/Operator of the Light Ends Rail Rack (S-1027) shall handle no more than 8.2125 million barrels of liquefied gases (propanes, butanes, pentanes) in any consecutive four-quarter period. [Basis: Cumulative Increase, Toxics, BACT]
 3. The Owner/Operator shall maintain quarterly records in a District-approved log. These records shall be retained for a period of at least five years. The logs shall be kept on site and made available to District staff upon request. [Recordkeeping]
 4. The owner/operator shall operate the gas collection and emission control system continuously during all loading and unloading of liquefied gases (propanes, butanes, pentanes) at the S-1027 Light Ends Rail Rack facility. [Basis: Contemporaneous Emission Reduction Credits]
 5. The owner/operator shall maintain the gas collection system in a leak free condition) completely enclosed. [Basis: Contemporaneous Emission Reduction Credits]
 6. Prior to implementation of the VIP, the owner/operator shall route the POC emissions from the S-1027 Light Ends Rail Rack to an existing sphere or vapor recovery system. [Basis: Contemporaneous Emission Reduction Credits]

Condition #18043

For S-1007 Alkylation Unit, S-1014 Cat Light Ends Splitter, S-1012 Dimersol Unit

1. Total fugitive POC emissions from the MTBE Phaseout Project at the Benicia Refinery (Plant #12626) shall not exceed 0.571 ton in any rolling 12 consecutive month period. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from this source exceed 0.571 ton/year, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate. <Basis: Cumulative Increase, Toxics>
2. Deleted. <Basis: Covered in BAAQMD Regulation 8, Rule 18.>
3. Deleted. <Basis: Covered in BAAQMD Regulation 8, Rule 18.>

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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)

Crude/Product Dock Sump TK-1918, Application #2378, Amended by Application #14606, Plant # 12626 – Valero Refinery.

1. The Owner/Operator shall limit the total liquid throughput at source S-239 to no more than 360,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)
2. The Owner/Operator of S-239 shall comply with all requirements of Regulation 8-2. (Basis: Regulation 8-2-301)
3. In order to demonstrate compliance with the part 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Recordkeeping)

Condition # 18744

Superceded by Condition ~~22820~~24375

- ~~1. The owner/Operator shall fire the S-243 emergency generator exclusively on diesel fuel having a sulfur content no greater than 0.05%, by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. [Basis: Cumulative Increase]~~

Condition # 18748

Superceded by Condition 24310

- ~~1. The owner/Operator shall fire the S-240, S-241 and S-242 emergency generator exclusively on diesel fuel having a sulfur content no greater than 0.05%, by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. [Basis: Cumulative Increase]~~

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COND# 18794

APPLICATION 4114; VALERO REFINING COMPANY; PLANT 12626

CONDITIONS FOR S-1004:

APPLICATION 16937, VIP Amendments. Condition superseded by Condition 20820, Parts 55 and 56 upon activation of Condition 20820, Part 21.a triggers

1. Total throughput of Naphtha through Catalytic Reformer shall not exceed the following limits:
 - a. 12,739 KB/Year (34.9 KB/D annual average)
 - b. 39.8 KB/Day

2. The following monthly records shall be maintained in a District-approved log for at least 5 years for S-1004 and shall be made available for District inspection upon request:
[Basis: Regulations 9-8-530, 1-441]
 - a. Daily Maximum Naphtha throughput in KB/D
 - b. Daily Average Naphtha throughput in KB/D

Condition 19176

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

Mis-numbered. See Condition 20806 for correct condition.

Condition # 19177

A/N 13201, Correct NSPS J H2S Concentration (Oct 2005)

Definitions:

~~APCO — Air Pollution Control Officer.~~

~~MOP — Manual of Procedures.~~

~~POC — Precursor Organic Compound: Rule 1-233
— excepting the non-precursor organic compound
— listed in Rule 1-234.~~

~~1-hour period: — Any continuous 60-minute period beginning on the hour.~~

~~Calendar Day: — Any continuous 24-hour period beginning~~

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~~_____ at 12:00 AM or 0000 hours.~~

Year: Any consecutive twelve-month period of time

Heat Input: All heat inputs refer to the heat input at the higher heating value (HHV) of the fuel, in Btu/scf.

Rolling 3-hour period: Any three-hour period that begins on the hour and does not include start-up or shutdown periods.

Firing Hours: Period of time during which fuel, other than pilot gas, is flowing to a unit, measured in fifteen-minute increments.

~~—MM Btu: million British thermal units~~

Start-up Mode: The lesser of the first 256 minutes of continuous fuel flow to the Gas Turbine/HRSG after fuel flow is initiated or the period of time from Gas Turbine/HRSG fuel flow initiation until the Gas Turbine/HRSG achieves 60 consecutive minutes of CEM data points in compliance with the emission concentration limits of Parts 18(a) and 18(b) or 19(b) and 19(d).

Shutdown Mode: The 30 minute period of time from non-compliance with any requirement listed in Parts 18(a) and 18(b) or 19(b) and 19(d) involving termination of fuel flow to the Gas Turbine/HRSG.

Corrected Concentration: The concentration of any pollutant (generally NO_x, CO, or NH₃) corrected to a standard stack gas oxygen concentration. For emission point P-60 (combined exhaust of S-1030 Gas Turbine and S-1031 HRSG duct burners) the standard stack gas oxygen concentration is 15% O₂ by volume on a dry basis.

~~Commissioning Activities: All testing, adjustment, tuning, and calibration activities recommended by the equipment manufacturers and the construction contractor to insure safe and reliable steady state operation of the gas turbines, heat recovery steam generators, and associated electrical delivery systems.~~

~~Commissioning Period: The Period shall commence when all mechanical, electrical, and control systems are installed and individual system start-up has been completed, or when a gas turbine is first fired, whichever occurs first. The period shall terminate when the plant has completed performance testing, is~~

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~~—available for commercial operation.~~

~~Precursor Organic Compounds (POCs): —Any compound of
—carbon, excluding methane, ethane, carbon monoxide,
—carbon dioxide, carbonic acid, metallic carbides or
—carbonates, and ammonium carbonate~~

~~—CEC CPM: —California Energy Commission Compliance
—Program Manager~~

Conditions for the Approval of the Authority to Construct and Permit to Operate

1. Completed. (Basis: Banking Certificates have been provided)
Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I, the Owner/Operator shall provide the following offsets:
(Basis: NOx and POC)
Phase I (S-1030 and S-1031)
NOx: 13.162TPY from Certificate # 703
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)
 - a. The Owner/Operator shall limit the SO2 emissions from the Curtailment Group to no more than 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit.
 - b. The Owner/Operator shall calculate the emissions using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. The Owner/Operator shall calculate emissions from MTBE ships using the District approved method established for the ships in Application #6968, Condition #10797.
 - c. The Owner/Operator shall submit a quarterly report of the group emissions to the District, in a District approved format, to document compliance.
3. Deleted. Commissioning period completed.
4. Deleted. Commissioning period completed.
5. Deleted. Commissioning period completed.
6. Coincident with the as-designed operation of A-60 SCR System, the Owner/Operator of the Gas Turbine (S-1030) and the HRSG (S-1031) shall comply with the NOx and CO

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- emission limitations specified in parts 18(a), 18(b), 19(b) and 19(d). (BACT)
7. Deleted. Commissioning period completed.
 8. Deleted. Commissioning period completed.
 9. Deleted. Commissioning period completed.
 10. Deleted. Commissioning period completed.
 11. Deleted. Commissioning period completed.
 12. Deleted. Commissioning period completed.
 13. The Owner/Operator shall only fire the Gas Turbine (S-1030) and HRSG Duct Burner (S-1031) on refinery fuel and/or natural gas. (Basis: BACT for SO₂ and PM₁₀)
 14. The Owner/Operator shall limit the combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031) each to no more than 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in the power train (S-1030) shall not exceed 500 MM Btu/hr, maximum firing rate. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)
 15. The Owner/Operator shall limit the combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031) to no more than 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)
 16. The Owner/Operator shall limit the combined cumulative heat input rate for the power train consisting of Phase I (S-1030 and S-1031) to no more than 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)
 17. The Owner/Operator shall abate the S-1030 Gas Turbine and S-1031 HRSG by the properly operated and properly maintained A-60 Selective Catalytic Reduction (SCR) System and A-61 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 NO_x)
 18. The Owner/Operator of the Gas Turbine (S-1030) and HRSG (S-1031) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)
 - 18a(1). The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x) at emission points P-60 to no more than 2.5 ppmv, on a dry basis, corrected to 15% O₂, averaged over one hour period. (Basis: BACT for NO_x when firing natural gas)
 - 18a(2) Deleted. Phase II not constructed.
 - 18b. Owner/Operator shall limit the carbon monoxide emissions concentration at P-60 to no more than 6 ppmv, on a dry basis, corrected to 15% O₂, averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)
 - 18c. The Owner/Operator shall limit the Ammonia (NH₃) emission concentrations at P-60 to no more than 10 ppmv, on a dry basis, corrected to 15% O₂, averaged over any rolling 3-hour period. (Basis: Toxics)

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- 18d. The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH₄) from P-60 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout the gas turbine/HRSG train.
(Basis: BACT for POC when firing natural gas)
- 18e. For sulfur dioxide (SO₂) emissions, the Owner/Operator shall limit the sulfur content in the natural gas to no more than 1.0 grain per 100 scf of natural gas. The Owner/Operator shall use standard pipeline quality natural gas as supplied by PG&E. The Owner/Operator shall demonstrate compliance in accordance with part # 35.
(Basis: BACT for SO₂ when firing natural gas)
- 18f. For particulate (PM₁₀) emissions, Owner/Operator shall limit the sulfur content in the natural gas to no more than 1.0 grain per 100 scf of natural gas. The Owner/Operator shall use standard pipeline quality natural gas as supplied by PG&E. The Owner/Operator shall demonstrate compliance in accordance with part # 35. (Basis: BACT for PM₁₀ when firing natural gas)
19. The Owner/Operator of the Gas Turbine (S-1030) and HRSG (S-1031) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)
- 19a. The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x), 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) to no more than 7.29 pounds per clock hour. (Basis: BACT for NO_x, Offsets)
- 19b. The Owner/Operator shall limit the emissions of nitrogen oxides (NO_x) at emission points P-60 to no more than 2.5 ppmv, on a dry basis, corrected to 15% O₂, averaged over any 3-clock hour period (Basis: BACT for NO_x)
- 19c. The Owner/Operator shall limit the carbon monoxide mass emissions at P-60 to no more than 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)
- 19d. The Owner/Operator shall limit the carbon monoxide emission concentration at P-60 to no more than 6 ppmv, on a dry basis, corrected to 15% O₂, averaged over any rolling 3-clock hour period. (Basis: BACT for CO)
- 19e. The Owner/Operator shall limit the Ammonia (NH₃) emission concentrations at P-60 to no more than 10 ppmv, on a dry basis, corrected to 15% O₂, averaged over any rolling 3-hour period. (Basis: Toxics)
- 19f. The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH₄) at P-60 to no more than 2.037 pounds per hour. The Owner/Operator shall demonstrate compliance on source test results. (Basis: BACT)
- 19g. The Owner/Operator shall limit the sulfur dioxide (SO₂) mass emissions at P-60 to no more than 10.75 pounds per hour (rolling 24 hour average). The Owner/Operator shall limit the sulfur concentrations in the refinery fuel gas to no more than 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT)

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The Owner/Operator shall limit the Sulfur concentrations in fuel gas fired in S-1030 and S-1031 to no more than 100 ppm Total Reduced Sulfur (rolling 24 hour average).

(Basis: BACT)

The Owner/Operator shall limit the hydrogen sulfide (H₂S) concentrations in refinery fuel gas to no more than the H₂S concentration limitation specified in NSPS 40 CFR Part 60, Subpart J. (Basis: NSPS)

- 19h. The Owner/Operator shall limit the particulate matter (PM₁₀) mass emissions from P-60 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr averaged over any consecutive 24-hours. Demonstration of compliance will be based on source test results. (Basis: BACT for PM₁₀)
20. The Owner/Operator shall limit the sulfuric acid emissions (SAM) from P-60 ~~combined~~ to no more than 7 tons in any consecutive four quarters. (Basis: PSD)
21. Deleted. Initial source test completed.
22. The Owner/Operator shall limit the total emissions from the power train consisting of ~~Phase I~~ (S-1030 and, S-1031) to no more than the following annual limits (365 day rolling average): (Basis: Cumulative Increase, Offsets, PSD)
- 22a. Phase I (S-1030 and S-1031)
- NO_x - 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)
 - SO_x – 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 and, S-1031) 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. 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 two boilers (S-38 and, S-39). 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. 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 two boilers (S-38 and, S-39). The owner shall submit a new application for any

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- increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)
- 22d. The Owner/Operator shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The Owner/Operator shall submit the report to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)
23. To demonstrate compliance with parts 19(f), 19(g), 19(h), 20 and parts of 22, the Owner/Operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The Owner/Operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:
- (a) For each calendar day, the Owner/Operator shall summarize the POC, PM10, SAM and SO2 emissions for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)]
 - (b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for the power train: Gas Turbine (S-1030)/HRSG (S-1031). [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)
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

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- 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. ~~Deleted [Redundant with BAAQMD Regulation 2, Rule 6 as shown in Table IV-Refinery) The Owner/Operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)~~
28. The Owner/Operator shall have a stack height for emission points P-60 each at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)
29. The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)
30. Deleted. Required notifications completed.
31. For the startup period for the Gas Turbine/HRSG, the Owner/Operator shall limit the startup period to no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics]
32. Unwarranted. [Basis: Cogeneration plant has been incorporated into the Title V permit. The condition to submit an application for a significant revision of the Title V permit to include the Cogeneration facility is no longer needed.]
33. Deleted. Phase II not constructed.
34. The Owner/Operator of the Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)
35. The Owner/Operator shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H₂S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030 and S-1031). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO₂, BACT)
36. The Owner/Operator shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H₂S content of the refinery fuel gas. On a quarterly basis, the owner shall report:
- (a) the daily fuel consumption,
 - (b) hourly H₂S content (as averaged over 3 consecutive hours) of the refinery fuel gas,
 - (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours),
 - (d) quarterly daily averaged H₂S content
 - (e) quarterly daily averaged total reduced sulfur content, and
 - (f) annual averaged reduced sulfur content using the last four quarters.
- The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the quarter. [Basis: BACT, Offsets, Cumulative Increase]
37. The Owner/Operator shall equip the two sources (S-1030 and, S-1031) with a District approved continuous fuel flow monitor and recorder in order to determine the fuel

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- consumption. [Basis: BACT, Offsets, Cumulative Increase, Monitoring]
38. The Owner/Operator shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NO_x, CO and O₂. [Basis: BACT, Offsets, Cumulative Increase, Monitoring]
39. The Owner/Operator shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM₁₀. The Owner/Operator shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]
40. The Owner/Operator shall conduct a quarterly source test to demonstrate compliance with part 20 for Sulfuric Acid -Mist (SAM). The testing shall also include testing for SO₂, SO₃, SAM and ammonium sulfates. The Owner/Operator shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: Cumulative Increase]
41. The Owner/Operator shall equip all hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets)
42. Deleted. [Basis: Inspection of hydrocarbon valves covered by Regulation 8, Rule 18.]
43. The Owner/Operator shall equip all connectors installed in the piping systems as a result of Phase I of the Cogeneration project with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)
44. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of Phase I of the Cogeneration project with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18. All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)
45. Deleted. (Basis: New fugitive equipment in organic service has been integrated into the owner's fugitive equipment monitoring and repair program and meets the requirements of District Regulation 8-18.)
46. The Owner/Operator of the Cogeneration project consisting of S-1030 and S-1031 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors. The annual mass limit for POC (Part number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit issuance. [Basis: Cumulative Increase, Offsets]
47. Deleted. (Basis: The S-38 and S-39 steam boilers have been completely shutdown.)

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48. Deleted. Phase II not constructed.

Temporary Condition for Phase I: Expires after the first 36 hours of Commissioning

49. Deleted. (Basis: Phase I commissioning period has ended.)

Condition 19329 (Alternative Compliance Plan)

For S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30 through S-33, S-34, S-35, S-40, S-41, S-173 and S-220

APPLICATION 16937 (Jan 2009), VIP Amendments. Condition to be deleted upon expiration of NOx IERCs

1. The affected sources making up this Alternative Compliance Plan shall not exceed the following maximum hourly firing rates: (Basis: Regulation 2-9-303.4.1, Cumulative Increase)

Valero Refining Company (Plant # B2626)

S-7 Pipestill Hydrofiner Furnace: F-103, 53 MMBtu/Hr

S-20 Naphtha Hydrofiner Furnace: F-104, 62 MMBtu/Hr

S-21 Hydrogen Reforming Furnace: F-301, 614 MMBtu/Hr

S-22 Hydrogen Reforming Furnace: F-351, 614 MMBtu/Hr

S-23 HCU Recycle Gas Furnace: F-401, 200 MMBtu/Hr

S-24 Cat Feed Hydrofiner Treat Gas Furnace: F-601, 33 MMBtu/Hr

S-25 Fluid Catalytic Cracker Unit: F-701, 230 MMBtu/Hr

S-26 Cat Naphtha Hydrofiner Furnace: F-801, 33 MMBtu/Hr

S-30- S-S33 Power former Furnace: F-2901 thru 2904, 463 MMBtu/Hr

S-34 Powerformer Regenerator Furnace: F-2905, 74 MMBtu/Hr

S-35 Powerformer Reactivation Furnace: F-2906, 14 MMBtu/Hr

S-40 Utility Package Boiler: SG-2301, 218 MMBtu/Hr

S-41 Utility Package Boiler: SG-2302, 218 MMBtu/Hr

S-173 Coker Steam Superheat Furnace: F-902, 20 MMBtu/Hr

S-220 MRU Hot Oil Furnace: F-4460, 351 MMBtu/Hr

Valero Asphalt Plant (Plant # B3193)

S-19 Vacuum Heater: H-1, 40 MMBtu/Hr (from 33 MMBtu/Hr 4/03, AN 7023)

S-20 Steam Boiler: H-2A, 15 MMBtu/Hr

S-21 Steam Boiler: H-2B, 15 MMBtu/Hr

2. The applicant shall submit quarterly reports and an annual report (July 1 to June 30) of their ACP activity no later than 30 days after the close of the specified period. (Basis: Regulation 2-9-303.3)

3. The applicant shall submit all necessary documents to the District to review and approve

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(or deny) the Alternative Compliance Plan. These documents in support of continuing the ACP shall be submitted no later than 30 days after the close of the calendar year. (Basis: Regulation 2-9-303.3)

4. The applicant shall maintain all records required in Parts #2 and #3 for a period of at least 5 years from the date of such record. These records shall be made available to District staff upon request. (Basis: Regulation 2-9-303.3)

Condition 19466

APPLICATION 13202 (Dec 2005)

APPLICATION 16056 (Oct 2007)

APPLICATION 16710, S-237, Delete Part 3 monthly visible emissions monitoring (Dec 2007)

APPLICATION 16708, S-43, S-44, S-46, Decrease Part 11 source test frequency (Mar 2008)

APPLICATION 16937 (Jan 2009), VIP Amendments. Condition superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers

1. Deleted. (Basis: Sampling is a safety problem and there is reasonable assurance that compliance with Regulation 9-1-313.2 is achieved. See detailed analysis in Statement of Basis)
- 2a. Deleted. (Basis: S-188 vents to the refinery fuel gas system).
- 2b. Deleted. (Basis: S-189 vents to the refinery fuel gas system).
- 2c. Deleted. (Basis: S-160 was modified in May, 2005 and now vents to Vapor Recovery System A-13/A26)
- 2d. The Owner/Operator shall operate S-160 Seal Oil Sparger only when abated by A-13/A-26 Vapor Recovery Compressor to be returned to the refinery fuel gas system. (Basis: Cumulative Increase)
- 2e. The Owner/Operator shall abate emissions from S-8 coke storage tanks by A-8 and/or A-10 baghouses at all times. (Basis: Cumulative Increase)
3. The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, S-176, and S-233 and S-237 to demonstrate compliance with Regulation 6-1-301 (Ringelmann 1 or 20% opacity). For S-176 only, this monitoring

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is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-1-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. 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 [BAAQMD 6-1-301/SIP 6-301](#)]

4. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]
- 5a. The Owner/Operator shall abate the emissions from the S-3 and S-4, CO Boilers, by at least four of the five A-1 through A-5 Electrostatic Precipitators, except as indicated in Part 5b, and the Owner/Operator shall exhaust those emissions through the main stack (P-1). [Basis: Regulation [BAAQMD 6-1-301/SIP 6-301](#) and Regulation [BAAQMD 6-1-304/SIP 6-304](#)].
- 5b. ~~Deleted (Basis: Condition allowed operation of three of five ESPs, however sources failed to meet BAAQMD regulations with three of five ESPs resulting in rescission of this condition). For no more than 30 days per calendar year to allow for source testing and emergency ESP repairs, the Owner/Operator shall abate the emissions from the S-3 and S-4 CO Boilers by at least three of the five A-1 through A-5 Electrostatic Precipitators at all times. If, at anytime, the abatement of S-3 and S-4 with less than four of the five Electrostatic Precipitators does not comply with all District Regulations, this 30-day allowance is rescinded and the Part will be deleted. [Basis: Regulation [BAAQMD 6-1-301/SIP 6-301](#) and Regulation [BAAQMD 6-1-304/SIP 6-304](#)].~~
- 5c. ~~Deleted (Basis: Source test requirement related to Part 5b). In order to demonstrate that operation of S-3 and S-4 with abatement using 3 out of 5 Electrostatic Precipitators does not impact emissions, and to demonstrate compliance with Regulations 6-1-301, 6-1-304 and 6-1-310, the Owner/Operator shall conduct a District approved source test during the operation of 3 ESP units. All source testing shall be completed in accordance with the District's Manual of Procedures. This source test shall be completed and the source test report demonstrating compliance submitted to the District's Compliance and Enforcement Division and the District's Engineering Division. This source test report shall be approved by the District's Source Test Section prior to 3 ESP unit operation after the initial source test. [Basis: Regulations [BAAQMD 6-1-301/SIP 6-301](#), [BAAQMD 6-1-304/6-304](#) and [BAAQMD 6-1-310/SIP 6-310](#)]~~

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6. The Owner/Operator shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-~~1~~-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less~~-~~more~~ than ~~45~~ 60 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 [BAAQMD 6-~~1~~-310/SIP 6-310](#)]
7. The Owner/Operator shall perform an annual source test on Sources S-8 and S-176 to demonstrate compliance with Regulation 6-~~1~~-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less~~-~~more~~ than ~~45~~ 60 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-176 only, this source test is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-~~1-301~~-310 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation [BAAQMD 6-~~1~~-310/SIP 6-310](#)]
8. The Owner/Operator shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-~~1~~-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO₃ and H₂SO₄). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less~~ ~~more~~ than ~~45~~-60 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 [BAAQMD 6-~~1~~-330/SIP 6-330](#)]
9. The Owner/Operator shall perform an annual source test on Sources S-5, S-6 and S-8 to demonstrate compliance with Regulation 6-~~1~~-311 (PM mass emissions rate not to exceed 4.10P^{0.67} lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less~~ ~~more~~ than ~~45~~-60 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-8, compliance with Regulation 6-~~1-301~~-311 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation [BAAQMD 6-~~1~~-311/SIP 6-311](#)]
10. The Owner/Operator shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O₂, operating day average). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less~~-~~more~~ than ~~45~~-60 days after the test. These records shall be kept for a period of at least 5 years from date of

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entry and shall be made available to District staff upon request.

The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O₂, operating day average, measured by a properly installed CEM for CO and O₂. [Basis: Regulation 9-10-305]

11. The Owner/Operator shall conduct an ~~an~~ semi-annual District-approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NO_x not to exceed 55 ppmv, dry, at 15% O₂, fired on refinery fuel gas). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no ~~less-more~~ than ~~45-60~~ 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 Owner/Operator shall abate the VOC emissions from the S-159 Lube Oil Reservoir using the S-36 Boiler. [Basis: Cumulative Increase]
13. The Owner/Operator shall vent the VOC emissions from S-167 and S-168 Seal Oil Spargers in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system. [Basis: Cumulative Increase]
14. The Owner/Operator shall use the continuous emission monitors required by Regulation 9, Rule 10, to monitor compliance for all NO_x limits at the following sources:
 - CO Furnaces: S-3, S-4
 - Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220
 - Steam Generators : S-40, S-41[Basis: Regulation 9-10-502.1]
15. The Owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources:
 - S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator
 - S-6 Fluid Coker, Burner
16. ~~Deleted. Requirements to prepare test plans, train employees, and install necessary equipment have been completed. To allow sufficient time to prepare test plans, train employees, and install any necessary equipment, the monitoring requirements Parts 1, 2c, 3, 6, 7, 8, 9, 10, 11, 14 and 15 are effective April 1, 2004.~~

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Condition 20666

1. The OPW EVR Phase I Vapor Recovery System, including all associated plumbing and components, shall be operated and maintained in accordance with the most recent version of California Air Resources Board (CARB) Executive Order VR-102. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board. (basis: District Regulation 8-7-301.2)
2. The owner or operator shall conduct and pass a Rotatable Adaptor Torque Test (CARB Test Procedure TP201.1B) and either a Drop Tube/Drain Valve Assembly Leak Test (TP201.1C) or, if operating drop tube overfill prevention devices ("flapper valves"), a Drop Tube Overfill Prevention Device and Spill Container Drain Valve Leak Test (TP201.1D) at least once in each 36- month period. Measured leak rates of each component shall not exceed the levels specified in VR-102. Results shall be submitted to BAAQMD within 15 days of the test date in a District-approved format. (basis: District Regulation 8-7-301.2)

Condition 20762

For Refinery:

This condition applies to tanks that are exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to the exemption in Regulation 8-5-117 for storage of organic liquids with a true vapor pressure of less than or equal to 25.8 mm Hg (0.5 psia).

1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg (0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulation 8-5-117)
2. Whenever the type of organic liquid in the tank is changed to a liquid with the true vapor pressure at the storage temperature greater than 25.8 mm Hg (0.5 psia), the owner/operator shall comply with all the requirements of Regulation 8-5 prior to making the change. (Basis: Regulation 8, Rule 5)
3. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request.

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(Basis: 8-5-117)

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Condition # 20806

For S-16, S-18, S-19 Flares (ST-2101AG, ST-2101, ST-2103)

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

(Basis: Regulation [BAAQMD 6-1-301/SIP 6-301](#), 2-1-403)

5. The Owner/Operator shall comply with one of the following requirements if visual inspection is used:
 - a. If EPA Method 9 is used, the Owner/Operator shall comply with Regulation [6-1-301](#) when operating the flare.
 - b. If the procedure of 4.b.ii is used, the Owner/Operator shall not operate a flare that has visible emissions for three consecutive minutes.

(Basis: Regulation 2-6-403)

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6. The Owner/Operator shall keep records of all flaring events, as defined in Part 3. The Owner/Operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 4 of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 4 of this condition) or Regulation 6-1-301 occurred (using EPA Method 9). (Basis: Regulation 2-6-501; 2-6-409.2)
7. (Deleted June 2005. Limiting the gases burned at S-19 did not resolve the intended issue of compliance with NSPS Subpart J).
8. ~~Monitoring plans, training, and installation of necessary equipment completed. To allow sufficient time to prepare monitoring plans, train employees, and install any necessary equipment, Parts 1 through 7 of this Condition are effective January 1, 2005.~~

Condition # 20820, VIP Application No. 5864, Amended by VIP Amendments, Application No. 16937, Amended by Application No. 15606 to revise the NMOC baseline.

FUGITIVE EQUIPMENT

1. a. The Owner/Operator shall equip all light hydrocarbon control valves installed as part of the VIP with live loaded packing systems and polished stems, or equivalent. [Basis: BACT, Cumulative Increase, offsets]
- b. The Owner/Operator shall equip all flanges/connectors installed in the light hydrocarbon piping systems as a result of the VIP with graphitic-based gaskets unless the service requirements prevent this material. [Basis: BACT, Offsets, Cumulative Increase]
- a. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of the VIP with “wet” dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. [Basis: BACT, Offsets, Cumulative Increase]
- b. The Owner/Operator shall equip all new light hydrocarbon centrifugal pumps installed as part of the VIP with a seal-less design or with dual mechanical seals with a heavy liquid barrier fluid, or equivalent. [Basis: BACT, Offsets, Cumulative Increase]
- c. The Owner/Operator shall integrate all new fugitive equipment installed as part of the VIP, in organic service, into the owner’s fugitive equipment monitoring and repair program. [Basis: Compliance monitoring]

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2. The Owner/Operator shall submit a count of installed pumps, compressors, valves, and flanges/connectors every 180 days until completion of the project. For flanges/connectors, the owner/operator shall also provide a count of the number of graphitic-based and non-graphitic gaskets used. The Owner/Operator has been permitted to install fugitive components with a total NMOC emission rate of 6.0 TPY. It is estimated that the fugitive components count are approximately 4, 000 valves, 12,000 flanges/connectors and 40 pumps). If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The Owner/Operator may have enough remaining contemporaneous emissions reduction credits (ERC's) to cover any increase in NMOC fugitive emissions beyond the original projection. If not, the Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after the submittal of the final NMOC fugitive equipment count. If the actual component count is less than the predicted, at the completion of the project, the total will be adjusted accordingly. Any ERC's applied by the facility in excess of the actual total fugitive emissions will be credited back to Owner/Operator prior to issuance of the permits. [Basis: Cumulative Increase, Toxics]

FUEL GAS SYSTEM

3. The Owner/Operator shall fire refinery low-pressure fuel gas in S-1061 at a concentration at or below the following: (a) 100 ppmvd totaled reduced sulfur (TRS), averaged over a calendar day and (b) H2S concentration limitation specified in NSPS 40 CFR Part 60, Subpart Ja. [Basis: NSPS Subpart Ja, BACT]
4. The Owner/Operator shall fire refinery low-pressure fuel gas in S-1061 at a concentration at or below 45 ppmvd of total reduced sulfur, averaged over any rolling consecutive 365-day period. [Basis: BACT]
5. The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery low-pressure fuel gas prior to combustion in S-1061 Furnace. [Basis: Refinery fuel gas monitoring for SO2, BACT]
6. To demonstrate compliance with parts 3 and 4, the Owner/Operator shall measure and record the 24-hour average TRS content and 365-day average TRS content of the refinery fuel gas fired in S-1061. On a quarterly basis, the Owner/Operator shall report: (a) the daily fuel consumption at S-1061, (b) daily averaged H2S content of the fired refinery fuel gas, (c) daily averaged TRS content, (d) quarterly daily averaged H2S content, (e) quarterly daily averaged TRS content, and (f) annual averaged TRS 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.]

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HYDROGEN REFORMER FURNACE (S-1061)

7. The Owner/Operator shall fire only refinery fuel gas and/or natural gas in the S-1061 Hydrogen Reformer Furnace. [Basis: BACT]
8. Total combustion emissions from this combustion source (S-1061), abated by SCR, shall not exceed the following annual limits in any calendar year: [Basis: Cumulative Increase, Offsets]

<u>Pollutant</u>	<u>Annual (tons)</u>
<u>NOx</u>	<u>25.3</u>
<u>CO</u>	<u>30.8</u>
<u>SO2</u>	<u>28.0</u>
<u>PM10</u>	<u>10.7</u>
<u>NMOC</u>	<u>9.9</u>

- a. The Owner/Operator shall determine the annual emissions using continuous emission monitor (CEM) data for NOx, CO, O2, TRS, H2S and using source test data and fuel consumption for PM10 and NMOC. [Basis: Monitoring]
- b. The Owner/Operator shall submit an annual report to the Compliance and Enforcement Division and Engineering Division no later than 45 days following the end of each calendar year. The report shall include the actual daily emissions based on CEM data for NOx, CO, TRS, H2S, O2, and the daily emissions of PM10 and NMOC based on the most recent source test data. Also, the report shall include the annual totals of each pollutant to demonstrate compliance with the above limits. The report shall also include the total daily heat input for S-1061 Hydrogen Reformer Furnace. [Basis: Reporting Requirements]
9. The Owner/Operator shall equip the S-1061 Hydrogen Reformer Furnace with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. (This is not a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring]
10. Startups and shutdowns of the S-1061 Hydrogen Reformer Furnace shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to furnace dryout/warmup periods, which shall not exceed 72 consecutive hours. [Basis: Time allowances for startup and shutdown periods]
11. Except during startup and shutdown, the Owner/Operator shall maintain emissions of nitrogen oxides from the S-1061 Hydrogen Reformer Furnace at or below 5 ppmv, dry,

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- corrected to 3% oxygen (0.0059 lb/MM Btu), averaged over any 3 consecutive hours. [Basis: BACT]
12. Except during periods of startup and shutdown, the Owner/Operator shall maintain emissions from the S-1061 Hydrogen Reformer Furnace at or below the following levels: (a) CO emissions - 10 ppmv, dry, corrected to 3% oxygen (0.0072 lb/MM Btu), averaged over 3 hours, and (b) PM10 emissions - 0.0025 lb/MMBtu, averaged over 3 hours, and (c) NMOC emissions - 0.0023 lb/MMBtu, averaged over 3 hours.
13. The Owner/Operator shall monitor compliance with Parts 11 and 12 by using a District-approved CEM for NOx and CO, respectively. The Owner/Operator shall perform an annual source test and monitor fuel consumption data for PM10 and NMOC to demonstrate compliance with Part 12. [Basis: BACT]
14. Except during periods of startup and shutdown, the Owner/Operator shall maintain ammonia emissions (ammonia slip) from the SCR unit (A-1061) at or below 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any rolling consecutive 3-hour period. [Basis: Toxics, BACT]
15. The Owner/Operator shall perform an initial source test in accordance with the requirements set forth in Part 17 to demonstrate compliance with the ammonia limitation in part 14. [Basis: Toxics, Source Tests]
16. For source S-1061, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx, CO, O2, fuel gas TRS and H2S. [Basis: CEM Monitoring]
17. No later than 60 days from the startup of the S-1061 Hydrogen Reformer Furnace, the Owner/Operator shall conduct a District-approved source test to determine initial compliance with the limits in parts 11, and 12 for NOx, CO, NMOC and PM10. The Owner/Operator shall conduct the source tests in accordance with part 20. The Owner/Operator shall submit the source test results to the Source Test Section and Engineering Division no later than 60 days after the source test. [Basis: Compliance determination via source tests]
18. The Owner/Operator shall maintain the total heat input for S-1061 at or below the following limits: (1) 8,584,800 million BTUs (HHV) in any 365 consecutive day period and (2) 980 million BTUs (HHV) over any one hour period. [Basis: Cumulative Increase]
19. The Owner/Operator shall conduct an annual source test to demonstrate subsequent compliance with the NMOC and PM10 mass rates specified in part 12. The Owner/Operator shall conduct the source tests in accordance with part 20. The Owner/Operator shall submit the source test results to the Source Test Section and Engineering Division no later than 60 days after the source test. [Basis: Periodic Monitoring]

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20. 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 emissions monitors as approved by the District's Source Test Section. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. [Basis: Source test compliance verification and accuracy]

FCCU/CKR SCRUBBER AND MAIN STACKS

21. The emission limitations in part 21 shall go into effect upon the implementation of any changes permitted in the Valero Improvement Project and VIP Amendments that have the potential to increase main stack emissions. These changes are reflected by any one of the following events: [Project Implementation]

a. VIP/VIP Amendments Triggers for FCCU/CKR Scrubber and Main Stacks

- i. Processing more than 135,000 barrels (BBL) of crude in any calendar day at S-1006 Pipestill.
- ii. Operation of a third air blower, or oxygen injection, to the FCCU Regenerator (S-5) or the Coker Burner (S-6), indicating a change to the combustion process in these units.
- iii. Operation of new CO furnaces, F-105 or F-106 (S-1059 or S-1060).

b. VIP/VIP Amendments Implemented – FCCU/CKR Scrubber and Main Stacks Emissions Limitation

Upon implementation of the VIP/VIP Amendments as triggered in part 21a, the Owner/Operator shall limit the FCCU/CKR Scrubber and Main Stacks' emissions to no more than the following based on BACT requirements of the FCCU/CKR Scrubber and 3-year baseline (4/05 to 3/08) of the Main Stack [Basis: FCCU/CKR and Main stacks baseline]:

- i. NO_x – 77.9 ppm @ 3% O₂, 365-day average, determined by CEM. 779.9 tons per calendar year.
- ii. SO₂ – 440 ppm @ 3% O₂, 365-day average, determined by CEM. 6,132 tons per calendar year, determined by CEM. These values may be modified administratively after installation of the main stack scrubber. The modified values will reflect any ERCs granted due to installation of the scrubber.
- iii. PM₁₀ – 40 lb/hr, as determined by BAAQMD ST-15 or EPA Method 17 in conjunction with EPA Methods 1, 2, 3 and 4, 115.4 tons/calendar year, determined by summing each of the daily emissions, per the most recent source

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test.

iv. NMOC –13.41 tons/calendar year, as determined in accordance with Part 63c.

v. CO – 35.2 ppm @ 3% O₂, 365-day average, determined by CEM.
214.5tons/calendar year.

c. PM10 and NMOC Periodic Monitoring: Initial & Annual Source Tests

The Owner/operator shall conduct a District approved source test for PM10 and NMOC emissions within 90 days following the effective date of the above limitations and annually thereafter. The owner/operator shall submit the Source test results to the Source Test Section and Engineering Division within 60 days following completion of the source test. [Basis: FCCU/CKR and Main stacks baseline monitoring, reporting]

d. Annual Emissions Reporting on FCCU/CKR Scrubber and Main Stacks

The owner/operator shall submit an annual report to the District no later than 45 days following the end of each applicable calendar year. The owner/operator shall list for each pollutant, the daily emissions and the annual emissions total, to document compliance with the above limitations. [Basis: Reporting Requirements]

e. FCCU/CKR Scrubber and Main Stacks: Surplus Reduction Used for Shipping Contingency

If FCCU/CKR Scrubber and Main Stacks emissions for a calendar year are less than the above limits, the owner/operator may apply the surplus reduction, if required, as an offset for the shipping contingency under part 24. [Basis: Offsets]

22. In accordance with Regulation 2-4-301.1, sulfur dioxide (SO₂) emission reductions greater than those required by any District regulation and EPA Consent Decree, resulting from the installation of A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber, shall be eligible for banking after being demonstrated by source testing or other means acceptable to the APCO. The baseline emissions shall be calculated in accordance with Regulation 2-2-605. [Basis: Banking]

CARGO CARRIER and DOCK

23. The emission limits in part 23 will begin on January 1 of the year when the owner/operator processes more than 135,000 BBL of crude oil at S-1006 on any one day or the moment that the storage tanks in part 32 (Sources S-57 through S-62, S-1047 and S-1048) exceed a combined total of 141.5 kbbl/day (annual daily average), whichever event occurs first.

Ship and barge emissions associated with the import of crude and gas oil across the plant's main Benicia crude dock, combined with the ship emissions associated with the

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export of product coke across the Plant's Benicia coke dock, will not exceed the following annual calendar year limits: [Basis Cumulative Increase, Offsets]

Pollutant	Base Line	VIP Increase	Total Annual (tons)
Nox	96.14	39.98	136.12
SOx	32.87	16.19	49.06
NMOC	7.34	3.22	10.56
PM10	5.43	2.39	7.82
CO	13.83	5.88	19.71

24. To accommodate any unforeseen changes in shipping requirements, the above total annual limits for each pollutant may be further increased to accommodate a shift in crude imports from pipeline to ships. All increases in combustion emissions from ships will need to be offset through contemporaneous emissions reductions. The VOC contingency has been provided as part of Application #5846. The emission reduction credits (ERC's) for the other pollutants will be provided by a corresponding reduction in the main stack annual emission limit (Part 21). However, in no event shall the Owner/Operator allow the total additional increase for the contingency to exceed the contingency allowance presented below. [Basis: Cumulative Increase, Offsets]

Pollutant	Base Line plus	VIP Increase	Total Annual (tons)
NOx	136.12	32.95	169.07
SOx	49.06	15.76	64.82
NMOC	10.56	3.10	13.66
PM10	7.82	2.06	9.88
CO	19.71	5.21	24.92

25. The Owner/Operator shall use the following emission factors for determining compliance with parts 23 and 24. [Basis: Compliance Verification]

Crude and Gas Oil Ship Receipts at Main Benicia Crude Dock in pounds per 1000 BBL (lb/kBBL):

5.1 NOx, 1.8 SOx, 0.29 PM10, 0.42 NMOC, 0.76 CO.

Crude and Gas Oil Barge Receipts at Main Benicia Crude Dock in lb/kbbl:

12.78 NOx, 0.16 SOx, 0.56 PM10, 0.29 NMOC, 1.27 CO.

Coke Exports via Ship at Valero Coke Dock in lb/1000 tons:

44.2 NOx, 33.1 SOx, 3.6 PM10, 3.4 NMOC, 6.2 CO.

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26. The Owner/Operator shall submit calendar year reports to the District, due the 45th day following the end of the year, detailing the annual emissions to document compliance with parts 23 and 24. [Basis: Annual Report]
27. The owner/operator shall maintain daily records (calendar day), in a District approved log, for: (1) the total number of deliveries of crude oil by ship and barge, (2) the total number of deliveries of PGO by ship and barge, and (3) the total number of shipments of coke by ship. The daily throughput of crude oil transferred at the plant's dock from the cargo ship or barge to the crude storage tanks (Facility B5574 S-57 through S-62, Facility B2626 S-1047 and S-1048) 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 District staff upon request. [Basis: Recordkeeping]

OFFSETS

28. Prior to the implementation of the VIP shipping, the Owner/Operator shall do the following to provide contemporaneous offsets for the ship, rail and barge emissions: [Basis: Contemporaneous Emissions Reduction Credits]
- a. Complete Light Ends Rail Rack Arm Drains (15.8 tpy NMOC). Completed 3/8/04
 - b. Halt MTBE ship imports no later than 90 days following VIP implementation (36.7 TPY NO_x, 3.48 TPY NMOC, 1.61 TPY PM₁₀). Completed
 - c. Shut down S-38 and S-39 Boilers, per Cogeneration Project Condition 19177, part 47 (0.99 tpy PM₁₀). Completed
 - d. Reduce Main Stack SO₂ emissions per part 23 by 16.2 TPY.

Note: VIP shipping is triggered as described in Part 23.

29. Prior to implementation of the VIP phase pertaining to NMOC fugitives or crude tankage, the Owner/Operator shall do the following to offset the NMOC emissions increase in part 2 from fugitives (3.0 tpy), and the S-1047 and S-1048 crude storage tanks (3.3 tpy): [Basis: Offsets]

- a. Complete Light Ends Rail Rack Drains (15.8 tons NMOC/year). Completed 3/8/04

Note: The VIP phase in part 29 is triggered upon commissioning the first VIP fugitive components, or the commissioning of the first crude tank (S-1047 or S-1048).

STORAGE TANKS

30. For the S-1047 and S-1048 Storage Tanks (external floating roof), the Owner/Operator shall comply with all applicable NSPS requirements of 40 CFR Part 60, Subpart Kb and the requirements of District Regulation 8-5. [Basis: BACT, NSPS]

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31. Owner/Operator shall not store any material in S-1047 or S-1048 storage tanks other than crude oil if the new material will result in an emission increase of NMOC 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; (d) new toxic compounds. Owner/Operator shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Toxics]
32. The Owner/Operator shall limit the combined material throughput at storage tanks, Facility B5574 S-57 through S-62, and Facility B2626 S-1047 and S-1048, to no more than 171.5 kbbbl/day (annual daily average) or 62.6 Million Barrels per year. [Basis: Cumulative Increase]
33. The Owner/Operator shall maintain the daily combined material throughput at storage tanks, and Facility B5574 S-57 through S-62, and Facility B2626 S-1047 and S-1048, in a District approved log to demonstrate whether or not the VIP has been triggered per part 23 and compliance with part 32. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Recordkeeping]

MISCELLANEOUS UNITS, VESSELS AND REACTORS

34. The Owner/Operator of S-7 (F-103) shall perform District's approved source tests to determine the NOx, SO2, CO, NMOC and PM10 emissions after S-1059 and S-1060 startup. [Basis: Cumulative Increase, Offsets, Recordkeeping]
35. Deleted, redundant with Part 58.
36. For each new fractionation/stripping process vessel (S-1034 through S-1045), the Owner/Operator shall not operate the sources beyond the following throughput limitation: [Basis: Cumulative Increase]
- 100 kbbbl/day, Daily Average, each vessel.
37. Upon startup of each source in part 36, the Owner/Operator shall submit documentation of the final design throughput for the source. The Owner/Operator may adjust the throughput limit for each source in part #36 as long as it does not exceed the 100 kbbbl/day, daily average. [Basis: Cumulative Increase]
38. The Owner/Operator shall maintain the daily material throughputs for each new fractionation/stripping source, S-1034 through S-1045, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District

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inspection for a period of at least 5 years from the date on which a record is made.
[Basis: Recordkeeping]

39. For each new hydrofining reactor process vessel (S-1049 through S-1056), the Owner/Operator shall not operate the sources beyond the following throughput limitation:
[Basis: Cumulative Increase]

100 kbbbl/day, Daily Average, each vessel.

40. Upon startup of each source, the Owner/Operator shall submit documentation of the final design throughput for the source. The Owner/Operator may adjust the throughput limit for each source in part 39 as long as it does not exceed 100 kbbbl/day, daily average.
[Basis: Cumulative Increase]

41. The Owner/Operator shall maintain the daily material throughputs for each new hydrofining source, S-1049 through S-1056, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made.
[Basis: Recordkeeping]

42. For each individual sulfur plant train, S-1 and S-2, the Owner/Operator shall not operate the sources beyond the following sulfur production limits: [Basis: Cumulative Increase, odors]
240 short tons per day, daily maximum
87,600 short tons per year

Note: Registration #76227 limits the daily throughput of S-1 and S-2. This limit will be deleted when the VIP project is started up.

43. The Owner/Operator shall maintain the daily sulfur production at each individual sulfur plant train, S-1 and S-2, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Recordkeeping]

44. For the sulfur storage pit and product tank, S-157 and S-236, the Owner/Operator shall not operate the sources beyond the following throughput limits: [Basis: Cumulative Increase, Odors]
480 short tons per day, daily maximum
175,200 short tons per year

45. The Owner/Operator shall maintain the daily material throughput at the sulfur storage pit and product tank, S-157 and S-236, in a District approved log. The Owner/Operator shall

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maintain these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Recordkeeping]

46. For the FCCU, S-5, the Owner/Operator shall not operate the source beyond the following throughput limits:

[Basis: Cumulative Increase]

80 kbbbl per day, daily maximum

77 kbbbl per day, annual average

47. The Owner/Operator shall maintain the daily material throughput at the FCCU, S-5, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Recordkeeping]

48. For the coke silos, S-8, the Owner/Operator shall not operate the source beyond the following limits:

[Basis: Cumulative Increase]

2,400 tons per day, daily maximum

876 ktons per year

49. The Owner/Operator shall maintain the daily material throughput at the coke silos, S-8, in a District approved log. The Owner/Operator shall keep these records and make them available for District inspection for a period of at least 5 years from the date on which a record is made.

[Basis: Recordkeeping]

50. The Owner/Operator shall not operate the S-9 Blow down system or the S-1006 Pipestill Unit beyond the following throughput limits: [Basis: Cumulative Increase]

180 kbbbl per day, daily maximum

165 kbbbl per day, annual average

Note: Condition #815, part 1 covers the daily throughput limit for S-1006.

Condition #815, part 1 will be deleted when the VIP project is implemented.

51. The Owner/Operator shall maintain the daily crude throughput at the S-9 Crude blow down system and the S-1006 pipestill unit in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made.

Note: Condition #815, part 2 covers the recordkeeping and reporting requirement for S-1006. This condition will be deleted when the VIP project is started up.

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52. To demonstrate compliance with the throughput limit specified in part 50, the Owner/Operator shall submit a report to the District's Compliance and Enforcement Division and Engineering Division on a monthly basis. The Owner/Operator shall forward the report to the District no later than 30 days after the close of each month.
[Basis: Recordkeeping]

53. For the feed drums and the hydrocracker unit, S-51, S-52 and S-1003, the Owner/Operator shall not operate the source beyond the following throughput limits:
[Basis: Cumulative Increase]

44 kbbbl per day, daily maximum

40 kbbbl per day, annual average

54. The Owner/Operator shall maintain the daily material throughput at the feed drums and the hydrocracker unit, S-51, S-52 and S-1003, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made.
[Basis: Recordkeeping]

55. For the powerformer unit, S-1004, the Owner/Operator shall not operate the source beyond the following throughput limits: [Basis: Cumulative Increase]

39.8 kbbbl per day, daily maximum

14.5 MMBBL per year

Note: Condition #18794, part 1 covers the daily and annual throughput limits for S-1004. Part 1 of Condition #18794 will be deleted when the VIP project is implemented.

56. The Owner/Operator shall maintain the daily feed throughput at the powerformer unit, S-1004, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made.
[Basis: Recordkeeping]

Note: Condition #18794, part 2 covers the recordkeeping requirements for S-1004. Part 2 of Condition #18794 will be deleted when the VIP project is implemented.

57. For the hydrogen plants, S-1010 and S-1062 combined, the Owner/Operator shall not operate the source beyond the following throughput: [Basis: Cumulative Increase]

190 MMSCF per day, daily maximum

69,350 MMSCF per year

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58. The Owner/Operator shall maintain the daily throughput of product hydrogen at the hydrogen plants, S-1010 and S-1062 combined, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made.
 [Basis: Recordkeeping]

59. For the dimersol unit, S-1012, the Owner/Operator shall not operate the source beyond following throughput limits:
 [Basis: Cumulative Increase]
7 kbbl per day, daily maximum
2.555 MMBBL per year

60. The Owner/Operator shall maintain the daily feed throughput at the Dimersol Unit, S-1012, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least five years. [Basis: Recordkeeping]

PS FURNACES (S-1059 AND S-1060)

61. The Owner/Operator shall abate emissions from Sources S-5, FCCU, and S-6, Fluid Coker, with PS Furnaces, S-1059 and/or S-1060, which are followed by Pre-scrubber/Regenerative Amine Scrubber, A-1047 during all periods of operation, except during start-up, shutdown, bypass and emergency bypass periods as defined in Part 65. Vapor flow rate from A-1047 shall not exceed 360,000 SCFM, dry, at 0% O2, averaged over any 365 consecutive days. [Basis: Cumulative Increase]

62. The Owner/Operator shall fire only refinery fuel gas, CO gas and/or natural gas in the S-1059 and S-1060 PS Furnaces. [Basis: BACT]

63. Total combustion emissions from S-1059 and S-1060 PS Furnaces, shall not exceed the following emissions limits, except as allowed in Parts 65, 66, 67 and 68: [Basis: Cumulative Increase, BACT, Offsets]

Emissions Limit Table for Parts 63, 66, 67 and 68

<u>Pollutant</u>	<u>Concentrations</u>	<u>Emissions</u>
<u>NOx</u>	<u>42.8 ppmvd @ 3% O2 365-day avg.</u>	<u>610.6 tpy²</u>
<u>NOx</u>	<u>85.6 ppmvd @ 3% O2 7-day avg.</u>	<u>6,194 lbs/day, 7-day avg.</u>
<u>NOx</u>	<u>150 ppmvd¹ @ 3% O2 1-calendar day avg.</u>	<u>10,344 lbs/day¹</u>
<u>SO2</u>	<u>21.4 ppmvd @ 3% O2 365-day avg.</u>	<u>393.2 tpy</u>
<u>SO2</u>	<u>42.8 ppmvd @ 3% O2 7-day avg.</u>	<u>4,309 lbs/day, 7-day avg.</u>

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<u>SO2</u>	<u>440 ppmvd¹ @ 3% O2 1-calendar day avg.</u>	<u>22.1 ton/day¹</u>
<u>CO</u>	<u>35.2 ppmvd @ 3% O2 365-day avg.</u>	<u>209.5 tpy</u>
<u>CO</u>	<u>100 ppmvd¹ @ 3% O2 1-calendar day avg.</u>	<u>4,402 lbs/day¹</u>
<u>PM10</u>	<u>40 lbs/hr¹ as determined by BAAQMD ST-15 or EPA Method 17 in conjunction with EPA Methods 1, 2, 3 and 4</u>	<u>114.8 tpy</u>
<u>NMOC³</u>	<u>10 ppmvd as tested by BAAQMD modified Method ST-7 or a combination of EPA Methods 18 and 25A</u>	<u>14.47 tpy</u>

¹ These values may be adjusted based on source test results as specified in Parts 66, 67 and 68.

² Emissions include startup, shutdown, emergency bypass or bypass scenarios.

³ NMOC: Non-methane organic compounds

- a. The Owner/Operator shall monitor compliance with emissions limits above by using District approved continuous emission monitor (CEM) data for NOx, CO, O2 and SO2, source test data for PM10 and NMOC, and A-1047 flow rates. [Basis Monitoring, BACT]
- b. The Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous opacity monitoring system (COMS) for reasonable assurance of compliance with Regulation 6-310 or submit an alternative monitoring plan (AMP) for opacity at the outlet of the FCCU/CKR stack. The owner/operator shall operate A-1047 Pre-scrubber/Regenerative Amine Scrubber that abate S-1059 and S-1060 PS Furnaces with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-1-310. [Basis: Regulation 2-6-503]
- c. The Owner/Operator shall submit an annual report to the Compliance and Enforcement Division and the Engineering Division no later than 45 days following the end of each calendar year. The report shall include the actual daily emissions based on CEM data for NOx, CO and SO2, and A-1047 flow rate. In addition, the report shall include the estimated daily emissions of PM10 and NMOC, based on emission factors (lb/MMdscf) determined from source test data and applied to the actual average A-1047 flow rate. Also, the report shall include the annual totals of each pollutant to demonstrate compliance with the above limits. The report shall also include the total daily heat input for S-1059 and S-1060 PS Furnaces. [Basis: Reporting Requirements]
- d. Except during periods of startup, shutdown, bypass and emergency bypass as defined

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- in Part 65, the Owner/Operator shall maintain ammonia emissions (ammonia slip) from the SCR units (A-1059 and A-1060) at or below 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any rolling consecutive 3-hour period. [Basis: Toxics, BACT]
- e. The Owner/Operator shall perform an initial source test in accordance with the requirements set forth in Part 73 to demonstrate compliance with the ammonia limitation in part 63d. [Basis: Toxics, Source Tests]
64. The Owner/Operator shall equip the S-1059 and S-1060 PS Furnaces with a District approved continuous fuel flow meter and recorder in order to determine refinery fuel gas consumption. (Prior to the Permit to Operate's issuance, the District will determine whether the fuel flow meter is a parametric monitor or not). [Basis: Monitoring]
65. Definitions of Startup, shutdown, emergency bypass and bypass:
- a. Startup of the SCRs is defined as the introduction of CO gas from S-5 FCCU or S-6 CKR to S-1059 and S-1060 PS Furnaces, not the beginning of fuel gas firing. The start up period of A-1059 and A-1060 SCRs may last up to 12 hours. NOx emissions on a concentration and mass basis will not be included in the 1-day, 7-day and 365-day average for this scenario.
- b. Shutdown of the SCRs is defined as the cessation of CO fuel into S-1059 and S-1060 PS Furnaces. The shutdown period of A-1059 and A-1060 SCRs may last up to 8 hours. NOx emissions on a concentration and mass basis will not be included in the 1-day, 7-day and 365-day average for this scenario.
- c. Emergency bypass of the SCRs is defined as when both SCR units are damaged and the Owner/Operator must replace the catalyst. The emergency bypass of A-1059 and A-1060 SCRs may last up to 7 days (168 hours) to permit catalyst replacement and restoration of abatement efficiency. NOx emissions on a concentration and mass basis will not be included in the 1-day, 7-day and 365-day average for this scenario.
- d. Bypass of the SCRs is defined as when loading coke into the CKR before startup or unloading coke following a CKR shutdown, while the FCCU is operating or FCCU is not operating. The bypass of A-1059 and A-1060 SCRs may last up to 96 hours to avoid coke dust entrainment in the PS Furnaces and SCRs. NOx emissions on a concentration and mass basis will be included in the 365-day average, but will be excluded in the 1-day, and 7-day average for this scenario.
[Basis: Definition, Cumulative Increase]
66. Except during periods of startup, shutdown, bypass and emergency bypass as defined in Part 65, the Owner/Operator shall maintain emissions from S-1059 and S-1060 PS Furnaces at or below the following levels: (a) Nitrogen Oxides (NOx) emissions – 42.8 ppmv, dry, corrected to 3% oxygen, any 365 consecutive days average, and (b) Nitrogen Oxides (NOx) emissions – 85.6 ppmv dry, corrected at 3% oxygen, any 7–calendar days average, and (c) Nitrogen Oxides (NOx) emissions – 150 ppmv dry, corrected to 3%

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- oxygen, any 1-calendar day average. The daily limit shall be established based on the results of a District-approved source test or District-certified CEM data. The test report must be submitted to the District within 150 days of initial startup of S-1059 and S-1060. [Basis: BACT]
67. Except during periods of startup and shutdown, bypass and emergency bypass as defined in Part 65, the Owner/Operator shall maintain emissions from S-1059 and S-1060 PS Furnaces at or below the following levels: (a) SO₂ emissions – 21.4 ppmv, dry, corrected to 3% oxygen, any 365 consecutive days average, and (b) SO₂ emissions – 42.8 ppmv dry, corrected at 3% oxygen, any 7–calendar days average, and (c) SO₂ emissions – 440 ppmv dry, corrected to 3% oxygen, any 1-calendar day average. The daily limit shall be established based on the results of a District-approved source test or District-certified CEM data. The test report must be submitted to the District within 150 days of initial startup of S-1059 and S-1060. [Basis: BACT]
68. Except during periods of startup and shutdown, bypass and emergency bypass as defined in Part 65, the Owner/Operator shall maintain emissions from S-1059 and S-1060 PS Furnaces at or below the following levels: (a) CO emissions – 100 ppmv, dry, corrected to 3% oxygen, as determined by CEM, 1-calendar day average, and (b) PM₁₀ emissions - 40 lbs/hr, as tested by BAAQMD Method ST-15 or EPA Method 17 in conjunction with EPA Methods 1, 2, 3 and 4 and (c) NMOC emissions – 14.47 tons/yr and 10 ppmv, dry, as tested by BAAQMD modified Method ST-7 or a combination of EPA Methods 18 and 25A. The CO limit shall be established based on the results of a District-approved source test or District-certified CEM data. The PM₁₀ may be adjusted based on source test results or more reliable information. The test report must be submitted to the District within 150 days of initial startup of S-1059 and S-1060. [Basis: BACT]
69. For sources S-1059 and S-1060, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NO_x, SO₂, CO, and O₂. The Owner/Operator shall install, calibrate, maintain, and operate a District-approved flow meter at the outlet of the A-1047 FCCU/CKR stack. (This is not a parametric monitor as defined in Regulation 1-238). [Basis: CEM Monitoring]
70. No later than 90 days from the startup of the S-1059, S-1060, A-1059, A-1060 and A-1047, the Owner/Operator shall conduct a District-approved source test to determine initial compliance with the limits in parts 63, 66, 67, and 68 for NO_x, SO₂, CO, NMOC, and PM₁₀. The Owner/Operator shall conduct the source tests in accordance with Part 73. The Owner/Operator shall submit the source test results to the Source Test Section and Engineering Division no later than 150 days after the initial startup date. [Basis: Compliance determination via source tests]
71. The Owner/Operator shall maintain the total heat input for S-1059 at or below 4,634,400 million BTUs (HHV) during any rolling 12-month period, and the total heat input for S-

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1060 at or below 2,268,840 million BTUs (HHV) during any rolling 12-month period.
[Basis: Cumulative Increase]

72. The Owner/Operator shall conduct a District-approved source test at least once per quarter to demonstrate subsequent compliance with the NMOC and PM10 mass rates specified in part 63. The quarterly source tests shall be conducted at least 2 months apart and not more than 4 months apart. The Owner/Operator shall submit the source test results to the Source Test Section and Engineering Division no later than 60 days after the source test. After acquiring one year of source test data, the Owner/Operator may switch to semi-annual or annual source testing if test variability is low upon District's approval. [Basis: Periodic Monitoring]
73. 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 emissions monitors as approved by the District's Source Test Section. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. [Basis: Source test compliance verification and accuracy]

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SULFURIC ACID MIST (SAM)

74. The Owner/Operator of sources S-1059, S-1060, A-1059, A-1060, A-1047, and S-1061 shall not emit more than 7 tons per year of sulfuric acid mist (SAM). [Basis: PSD]
75. Within 90 days of initial startup, the Owner/Operator shall conduct a District approved source test to demonstrate compliance with the SAM emissions in Part 74. For purposes of SAM, the applicant shall also test for SO₂, SO₃, SAM and ammonium sulfates. The Owner/Operator shall conduct the source tests in accordance with Part 73. The test results shall be forwarded to the District within 150 days of the initial startup date. The test should verify emission compliance at 80% or more of maximum firing on CO and refinery fuel gas for S-1059, S-1060 PS Furnaces and at 80% or more of maximum firing on refinery fuel gas for S-1061 Hydrogen Reformer Furnace.

If Sources S-1059, S-1060 and S-1061 cannot achieve 80% or more of maximum firing on CO and/or refinery fuel within 90 days of initial startup, the Owner/Operator shall conduct another District's approved source test no later than 2 months after operating in that mode to demonstrate compliance with the SAM emissions in Part 74. [Basis: compliance demonstration, PSD avoidance]

Contemporaneous Emissions reduction credit

76. The owner/operator of sources S-3, S-4, and A-1 through A-5 shall completely shutdown the equipment no later than 90 days after startup of S-1059 and S-1060 PS Furnaces, A-1059, A-1060 PS Furnace SCRs, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber. The owner/operator shall enter into the record log the date when the unit was shutdown.

The owner/operator of sources S-21 and S-22 shall completely shutdown one of the units no later than 90 days after startup of S-1061 and S-1062 Hydrogen Reformer Furnace and Hydrogen Unit with PSA. The owner/operator shall enter into the record log the date when the unit was shutdown. (Basis: offsets)

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Condition 21233

Valero Refining Company – California
 3400 E. Second Street
 Benicia, Ca 94510
 Application 11307
 Plant B2626 and A0901
 Regulation 9-10 Refinery-Wide Compliance
 S-20 (B2626) Modified by Application 12701

*1. The following sources are subject to the refinery-wide NOx emission rate and CO concentration limits in Regulation 9-10: (Basis: Regulation 9-10-301, [303](#) & 305)

Facility No. B2626, Valero Refining Company		
<u>S#</u>	<u>Description</u>	<u>NOx CEM</u>
7	F-103 Jet Fuel HF, 53 MMBtu/hr	No
20	F-104 Naphtha HF, 62 MMBtu/hr	No
21	F-301 Hydrogen, 614 MMBtu/hr	Yes
22	F-351 Hydrogen, 614 MMBtu/hr	Yes
23	F-401 Gas Oil HC, 200 MMBtu/hr	Yes
24	F-601 Cat Feed HF, 33 MMBtu/hr	No
25	F-701 Cat Feed, 230 MMBtu/hr	Yes
26	F-801 HCN HF, 33 MMBtu/hr	No
30	F-2901 PFR Preheat, 463 MMBtu/hr total	Yes
31	F-2902 PFR Preheat, 463 MMBtu/hr total	Yes
32	F-2903 PFR Preheat, 463 MMBtu/hr total	Yes
33	F-2904 PFR Preheat, 463 MMBtu/hr total	Yes
34	F-2905 PFR Regen Gas, 74 MMBtu/hr	No
35	F-2906 PFR React Gas, 14 MMBtu/hr	No
40	SG-2301 Steam Gen, 218 MMBtu/hr	Yes
41	SG-2302 Steam Gen, 218 MMBtu/hr	Yes
173	F-902 Coker Steam Superheat, 20 MMBtu/hr	No
220	F-4460 MRU Hot Oil, 351 MMBtu/hr	Yes

Facility No. A0901 (13193), Valero Benicia Asphalt Plant		
<u>S#</u>	<u>Description</u>	<u>NOx CEM</u>
19	Vacuum Heater, 40 MMBtu/hr	No
20	Steam Boiler, 14.7 MMBtu/hr	No
21	Steam Boiler H-2B, 14.7 MMBtu/hr	No

- A. Compliance with the daily refinery wide average NOx emission limit, 0.033 lb NOx/MMBtu fired duty is achieved through the use of an approved Alternate

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Compliance Plan using NO_x IERCs in accordance with the provisions in Regulation 2-9-303.

B. The owner/operator of each source listed in Part 1 above shall determine compliance with Regulation 9-10 as follows:

- 1) Calculate NO_x emissions from each furnace using measured fuel gas rates, and either:
 - a. CEM data or
 - b. NO_x emission factors from Part 5A
- 2). The daily facility wide average emission rate shall be determined by dividing the combined total emissions from sources listed in Part 1 above by the combined total heat input.
- 3). Sufficient NO_x IERC's will be provided in accordance with the provisions of Regulation 2-9-303 to ensure compliance with the refinery wide average NO_x emission limit of 0.033 lb NO_x/MMBtu fired duty.

*2. The Owner/Operator of each source with a maximum firing rate greater than 25 MMBtu/hr listed in Part 1 shall properly install, properly maintain, and properly operate an O₂ monitor and recorder. (Basis: Regulation 9-10-502)

*3. The Owner/Operator shall operate each source listed in Part 1, which does not have a NO_x CEM, within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from District-approved source tests. (Basis: Regulation 9-10-502)

A. The NO_x Box for units with a maximum firing rate of 25 MMBtu/hr or more shall be established using the procedures in Part 4.

B. The NO_x Box for units with a maximum firing rate less than 25MMBtu/hr shall be established as follows: High-fire shall be the maximum rated capacity. Low-fire shall be 20% of the maximum rated capacity (except for S-35, for which the low-fire shall be 8% of the maximum rated capacity). There shall be no maximum or minimum O₂.

*4. The Owner/Operator shall establish the initial NO_x box for each source subject to Part 3 by January 1, 2005. The NO_x Box may consist of two operating ranges in order to allow for operating flexibility and to encourage emission minimization during standard operation. (Basis: Regulation 9-10-502) The procedure for establishing the NO_x box is

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- A. Conduct District approved source tests for NO_x and CO, while varying the oxygen concentration and firing rate over the desired operating ranges for the furnace;
- B. Determine the minimum and maximum oxygen concentrations and firing rates for the desired operating ranges (Note that the minimum O₂ at low-fire may be different than the minimum O₂ at high-fire. The same is true for the maximum O₂). The Owner/Operator shall also verify the accuracy of the O₂ monitor on an annual basis.
- C. Determine the highest NO_x emission factor (lb/MMBtu) over the preferred operating ranges while maintaining CO concentration below 200 ppm; the Owner/Operator may choose to use a higher NO_x emission factor than tested.
- D. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NO_x Box, which represents the allowable operating range(s) for the furnace under which the NO_x emission factor from part 5a is deemed to be valid.
 - 1). The NO_x Box can represent/utilize either one or two emission factors.
 - 2). The NO_x Box for each emission factor can be represented either as a 4- or 5-sided polygon. The NO_x box is the area within the 4- or 5-sided polygon formed by connecting the source test parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NO_x box are listed in Part 5.
- E. Upon establishment of each NO_x Box, the Owner/Operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.

*5. Except as provided in part 5B & C, the Owner/Operator shall operate each source within the NO_x Box ranges listed below at all times of operation. This part shall not apply to any source that has a properly operated and properly installed NO_x CEM. (Basis: Regulation 9-10-502)

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- A. NOx Box ranges. The limits listed below are based on a calendar day averaging period for both firing rate and O2%.

Source No.	Emission Factor (lb/MMBtu)	Min O ₂ at Low Firing (O ₂ % , MMBtu/hr)	Max O ₂ at Low Firing (O ₂ % , MMBtu/hr)	Min O ₂ at High Firing (O ₂ % , MMBtu/hr)	Mid O ₂ at Mid/High Firing (polygon) (O ₂ % , MMBtu/hr)	Max O ₂ at High Firing (O ₂ % , MMBtu/hr)
Plant B2626						
7	0.350	3, 16	17, 10	6, 30	8, 10	11, 37
20	0.28	2, 19	12, 23	1.6, 37	2, 50	5, 47
24	0.757	11,7	14, 8	3, 27	6, 12	7, 29
26	0.194	13, 9	17, 7	6, 21	8, 17	12, 24
34	0.250	17, 2	20, 2	4, 26	N/A	7, 38
35	0.200	(Note 1), 1	(Note 1), 1	(Note 1), 14	N/A	(Note 1), 14
173	0.050	(Note 1), 4	(Note 1), 4	(Note 1), 20	N/A	(Note 1), 20
Plant A0901 (13193)						
S-19	0.030	6.8, 13.6	7.6, 13.5	2.8, 38.5	7.7, 16.6	6.2, 38.8
S-20	0.055	(Note 1), 2.9	(Note 1), 2.9	(Note 1), 14.7	N/A	(Note 1), 14.7
S-21	0.055	(Note 1), 2.9	(Note 1), 2.9	(Note 1), 14.7	N/A	(Note 1), 14.7

Note 1: Per Part 3B, Oxygen limits do not apply to sources with maximum firing rates less than 25 MMBtu/hr.

- B. Part 5A does not apply to low firing rate conditions (i.e., firing rate less than or equal to 20% of the unit's rated capacity, except for S-35, for which the low-fire shall be 8% of the maximum rated capacity), during startup or shutdown periods, or periods of curtailed operation (ex. during heater idling, refractory dry out, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service & 30-day averaging data).
- C. Part 5A does not apply during any source test required or permitted by this condition. See Part 6 for the consequences of source test results that exceed the emission factors in Part 5.

***6. NOx Box Deviations (Basis: Regulation 9-10-502) .**

- A. The Owner/Operator may deviate from the NOx Box (either the firing rate or oxygen limit) provided that the Owner/Operator conducts a District approved source test that reasonably represents the past operation outside of the established ranges. The source test representing the new conditions shall be conducted no later than the next regularly scheduled source test period, or within eight months, whichever is sooner. The source test results will establish whether the source was operating outside of the emission factor utilized for the source. The source test results shall be submitted to

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the District Source Test Manager within 45 days of the test. The Owner/Operator may request, and the APCO may grant, an extension of 15 days for submittal of results. As necessary, a permit amendment shall be submitted.

1) Source Test \leq Emission Factor

If the results of this source test do not exceed the higher NOx emission factor in Part 5, or the CO limit in Part 9, the unit will not be considered to be in violation during this period for operating out of the "box."

The facility may submit an accelerated permit program permit application to request an administrative change of the permit condition to adjust the NOx Box operating range(s), based on the new test data.

2) Source Test $>$ Emission Factor

If the results of this source test exceed the permitted emission concentrations or emission rates then the actions described below must be followed:

- a. Utilizing the measured emission concentration or rate, the Owner/Operator shall perform an assessment of compliance with Regulation 9-10-301 as follows:
 1. "Out of Box" Condition – for the day(s) in which the "out of box" condition(s) occurred, the Owner/Operator shall ensure sufficient NOx IERCs are provided to ensure the facility is in compliance with the refinery wide limit. The Owner/Operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301.
 2. Within the Box – for the case when the source is operated within the "box" but source test results indicate a higher emission factor, the Owner/Operator shall apply the higher emission factor retroactively to the date of the previous source test and provide sufficient NOx IERCs for that time period to ensure the facility is in compliance with the refinery wide limit specified in Regulation 9-10-301. The Owner/Operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301.
- b. The facility may submit a permit application to request an alteration of

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the permit condition to change the NO_x emission factor and/or adjust the operating range, based on the new test data.

- B. Reporting. The Owner/Operator must report conditions outside of box within 96 hours of occurrence.

*7. For each source subject to Part 3, the Owner/Operator shall conduct source tests on the schedule listed below. The source tests are performed in order to measure NO_x, CO, and O₂ at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the District Source Test Manager within 45 days of the test. The Owner/Operator may request, and the APCO may grant, an extension of 15 days for submittal of results. (Basis: Regulation 9-10-502)

A. Source Testing Schedule

- 1) Heater < 25 MMBtu/hr

Annual source test. The time interval between source tests shall not exceed 16 months. The source test results shall be submitted to the District Source Test Manager within 45 days of the test.

- 2) Heaters \geq 25 MMBtu/hr

Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the District Source Test Manager within 45 days of the test.

- 3) If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr - > 16 mos or > 25 MMBtu/hr - > 8 mos), the owner/operator shall conduct the required source test within 30 days of start up of the source.

B. Source Test Results > NO_x Box Emission Factor

If the results of any source test under this part exceed the permitted concentrations or emission rates the Owner/Operator shall follow the requirements of Part 6A2. If the Owner/Operator chooses not to submit an application to revise the emission

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factor, the Owner/Operator shall conduct another Part 7 source test, at the same conditions, within 90 days of the initial test.

*8. For each source listed in Part 1 with a NO_x CEM installed that does not have a CO CEM installed pursuant to Part 9, the Owner/Operator shall conduct semi-annual District approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with District-conducted NO_x CEM field accuracy tests may be substituted for the CO semi-annual source tests. (Basis: Regulation 9-10-502)

*9. For any source listed in Part 1 with a maximum firing limit greater than 25 MMBtu/hr for which any two source test results over any consecutive five year period are greater than or equal to 200 ppmv CO at 3% O₂, the Owner/Operator shall properly install, properly maintain, and properly operate a CEM to continuously measure CO and O₂. The Owner/Operator shall install the CEM within the time period allowed in the District's Manual of Procedures. (Basis: Regulation 9-10-502, 1-522)

*10. In addition to records required by Regulation 9-10-504, the Owner/Operator must maintain records of all source tests conducted to demonstrate compliance with Parts 1 and 5. These records shall be kept on site for at least five years from the date of entry in a District approved log and be made available to District staff upon request. (Basis: Regulation 9-10-504)

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COND# 22156

APPLICATION 16937 (Jan 2009), VIP Amendments. Condition deleted upon startup of S-1059 and S-1060 PS Furnaces

Valero Refining Company
3400 E. Second Street
Benicia, CA 94510
Electrostatic Precipitators (ESP) A-1, A-2, A-3, A-4 and A-5

1. The owner/operator of Electrostatic Precipitators (ESP) A-1, A-2, A-3, A-4 and A-5 that abate CO Boilers S-3 and S-4 shall conduct continuous ESP Opacity monitoring for reasonable assurance of compliance with Regulations 6-1-310. (Basis: Regulation 2-6-503)
2. Deleted. Initial compliance demonstration completed by opacity data recorded over the past 15 years)
3. The owner/operator shall operate A-1, A-2, A-3, A-4 and A-5 that abate CO boilers S-3 and S-4 with no more than one 6-minute average in an hour that exceeds 30% opacity. An exceedance of the opacity limit shall be deemed an exceedance of the particulate limit in Regulation 6-1-310. (Basis: Regulation 2-6-503)
4. Deleted. Source test not necessary. Continuous Opacity Monitor installed.
5. Deleted. Deviation reporting redundant to Title V regulation and BAAQMD Regulation 2-6.

Condition 22323

1. Pursuant to BAAQMD Toxic Section Policy, the owner/operator shall ensure that the annual gasoline throughput does not exceed 92,000 gallons in any consecutive 12 month period. (basis: cumulative increase)

VI. Permit Conditions

Condition ~~22820~~24375

S-243, Emergency Standby Diesel Engine, Control Room

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing. [Basis: Regulation 2-5, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a)]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.
[Basis: BAAQMD Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(1)(a)~~"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3)~~]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.
[Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1)~~"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(G)(1)~~]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).[Basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)~~"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)~~]

~~5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply: The owner or operator shall not operate each stationary emergency standby diesel~~

VI. Permit Conditions

~~fueled engine for non-emergency use, including maintenance and testing, during the following periods:~~

- ~~a. Whenever there is a school sponsored activity (if the engine is located on school grounds)~~
- ~~b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.~~

~~[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(A)(1)] or (e)(2)(B)(2)]~~

Condition 2285024309

APPLICATION 18400 (Aug 2008). S-251 – Emergency Diesel Generator, Admin Bldg

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing. [Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b)"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3)]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited. [Basis: BAAQMD Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b)"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3) or (e)(2)(B)(3)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1):"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has

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been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g)"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I),(or, Regulation 2-6-501)]

At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply: The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

Whenever there is a school-sponsored activity (if the engine is located on school grounds)

Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(A)(1)] or (e)(2)(B)(2)]

Condition 22851—24310

S-240, S-241, S-242 Diesel Firewater Pump Engines

1. Operating for reliability-related activities is limited to no more than 34 hours per year which is the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25. This emergency fire pump is subject to the current National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems."

[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)"Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations]

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2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.

[Basis: ~~BAAQMD Regulation 9-8-330 "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(B)(3)~~]

3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained.

[Basis: ~~BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(e)(1): "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)~~]

4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).

[Basis: ~~BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(g) "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)~~]

- ~~5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply: The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:~~
- ~~a. Whenever there is a school-sponsored activity (if the engine is located on school grounds)~~
 - ~~b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily~~

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~~conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.
[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(A)(1)] or (e)(2)(B)(2)]~~

CONDITION 22949

APPLICATION 13244 (July 2007), Ultra Low Sulfur Diesel Unit – S-247, S-248, S-1036, S-1051, S-1052

APPLICATION 16866 (Nov 2007), Ultra Low Sulfur Diesel Unit – Addition of mass emission limits

FUGITIVE EQUIPMENT

1. ~~a. The Owner/Operator shall equip all light hydrocarbon control valves installed as part of the VIP with live loaded packing systems and polished stems, or equivalent. [Basis: BACT, Cumulative Increase, offsets]~~
 - a. The Owner/Operator shall equip all flanges/connectors installed in the light hydrocarbon piping systems as a result of the VIP with graphitic-based gaskets unless the service requirements prevent this material. [Basis: BACT, Offsets, Cumulative Increase]
 - b. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of the VIP with “wet” dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. [Basis: BACT, Offsets, Cumulative Increase]
 - c. The Owner/Operator shall equip all new light hydrocarbon centrifugal pumps installed as part of the VIP with a seal-less design or with dual mechanical seals with a heavy liquid barrier fluid, or equivalent. [Basis: BACT, Offsets, Cumulative Increase]
 - d. The Owner/Operator shall integrate all new fugitive equipment installed as part of the VIP, in organic service, into the owner’s fugitive equipment monitoring and repair program. [Basis: Compliance monitoring]
2. The Owner/Operator has been permitted to install fugitive components (1,800 valves, 2,614 flanges/connectors, 8 pumps, 14 PSD, 1 compressor) with a total POC emission rate of 1.21 TPY for the entire ULSD Project. [Basis: Cumulative Increase, Toxics]

FUEL GAS SYSTEM

3. The Owner/Operator shall fire refinery low-pressure fuel gas in S-247 and S-248 heaters at a concentration at or below the following: (a) 155 ppmv total reduced sulfur (TRS), averaged over a calendar day and (b) the H₂S concentration limitation specified in NSPS 40 CFR Part 60, Subpart J. [Basis: NSPS, BACT]

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4. The Owner/Operator shall fire refinery low-pressure fuel gas in S-247 and S-248 heaters at a concentration at or below- 45 ppmv of total reduced sulfur (TRS), averaged over any rolling consecutive- 365 day period. (equivalent to 0.00610 lb SO₂/MMBtu fuel gas). [Basis: BACT, Cumulative Increase]
5. The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H₂S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in S-247 and S-248 heaters. [Basis: Refinery fuel gas monitoring for SO₂, BACT]
6. To demonstrate compliance with parts 3 and 4, the Owner/Operator shall measure and record the daily average TRS content, 3-hour average H₂S content, and 365-day average TRS content of the refinery fuel gas fired in S-247 and S-248 heaters. On a quarterly basis, the Owner/Operator shall report: (a) the daily fuel consumption at S-247 and S-248, (b) daily average H₂S content of the fired refinery fuel gas, (c) daily average TRS content, (d) quarterly daily average H₂S content, (e) quarterly daily average TRS content, and (f) annual average TRS 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, NSPS]

COMBUSTION SOURCES (S-247 and S-248)

7. The Owner/Operator shall fire only refinery fuel gas in the S-247 and S-248 heaters. [Basis: BACT]
8. Total combined combustion emissions from S-247 and S-248 shall not exceed the following annual limits in any calendar year: [Basis: Cumulative Increase, Offsets]

<u>Pollutant</u>	<u>Annual (tons)</u>
<u>NO_x</u>	<u>5.00</u>
<u>CO</u>	<u>8.92</u>
<u>SO₂</u>	<u>1.52</u>
<u>PM₁₀</u>	<u>1.25</u>
<u>POC</u>	<u>0.65</u>

- a. The Owner/Operator shall determine annual emissions using fuel consumption, fuel heating value, continuous emission monitor (CEM) data for TRS, NO_x and CO, and the emission factors from the latest source test for PM₁₀, and POC. [Basis: Monitoring]
- b. The Owner/Operator shall submit an annual report to the Compliance and Enforcement Division and Permit Services Division no later than 45 days following the end of each

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- calendar year. The report shall include the actual daily emissions based on CEM data for NO_x and CO, the actual daily emissions of SO_x based on the CEM for TRS, and the estimated daily emissions of PM₁₀ and POC based on the above emission factors. Also, the report shall include the annual totals of each pollutant to demonstrate compliance with the above limits. The report shall also include the total daily heat input for S-247 and S-248 heaters and the total daily fuel gas consumption at S-247 and S-248. [Basis: Reporting Requirements]
9. The Owner/Operator shall equip the S-247 and S-248 heaters each with District approved continuous fuel flow monitors and recorders in order to determine fuel consumption. (This is not a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring]
10. Startups and shutdowns of the S-247 and S-248 heaters each shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to furnace dryout/warmup periods, which each shall not exceed 72 consecutive hours. [Basis: Time allowances for startup and shutdown periods]
- 10.1 This part does not apply until after the conclusion of the initial startups of S-247 and S-248.
11. Except during periods of startup and shutdown, the Owner/Operator shall maintain combined emissions of nitrogen oxides in the common stack from S-247 and S-248 Furnaces at or below 17 ppmv, dry, corrected to 3% oxygen (0.0200 lb/MM Btu), averaged over any 3 consecutive hours, or 1.14 lbs/hr, averaged over any 3 consecutive hours. [Basis: BACT]
12. Except during startup and shutdown, the Owner/Operator shall maintain combined emissions of CO in the common stack from S-247 and S-248 heaters at or below 50 ppmv, dry, corrected to 3% oxygen (0.0357 lb/MM Btu), averaged over 8 hours, or 2.04 lbs/hr, averaged over 8 hours. [Basis: BACT]
13. Except during startup and shutdown, the Owner/Operator shall maintain combined mass emissions of PM₁₀ and POC in the common stack from S-247 and S-248 heaters at or below:
PM₁₀ : 0.0050 lbs/MMBTU or 0.29 lbs/hr
POC: 0.0026 lbs/MMBTU or 0.15 lbs/hr
[Basis: Monitoring]
14. For S-247 and S-248, the Owner/Operator shall install, calibrate, maintain, and operate District-approved continuous emission monitors and recorders for NO_x, CO and O₂ on the common stack. [Basis: CEM Monitoring]
15. Deleted, initial startup source test requirement.

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16. The Owner/Operator shall maintain the heat input for S-247 at or below the following limits: (1) 192,282 million BTUs (HHV) in any 365 consecutive day period and (2) 21.95 million BTUs (HHV) in any one hour period. The Owner/Operator shall maintain the heat input for S-248 at or below the following limits: (1) 307,476 million BTUs (HHV) in any 365 consecutive day period and (2) 35.10 million BTUs (HHV) in any one hour period. [Basis: Cumulative Increase]
17. 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 emissions 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 testing. [Basis: Source test compliance verification and accuracy]
18. The Owner/Operator shall conduct a source test every five years to demonstrate subsequent compliance with the POC and PM10 limits specified in part 13. The Owner/Operator shall conduct the source test in accordance with part 17. The Owner/Operator shall submit the source test results to the District staff no later than 60 days after the source test. [Basis: Periodic Monitoring, Title V Compliance Verification]

MISCELLANEOUS VESSELS AND REACTORS

19. The owner/operator shall operate the ULSD Unit only when the Diesel product delivered to the Diesel storage tanks does not exceed 9,125,000 Barrels in a calendar year. [Basis: Cumulative Increase]
20. For each new fractionation/stripping process vessel (S-1036), the Owner/Operator shall not operate the sources beyond the following throughput limitation:
25 kbbbl/day, Daily Average.
[Basis: Cumulative Increase]
21. For each new hydrofining reactor process vessel (S-1051 and S-1052), the Owner/Operator shall not operate the sources beyond the following throughput limitation:
25 kbbbl/day, Daily Average.
[Basis: Cumulative Increase]
22. The Owner/Operator shall maintain the daily unit throughputs for S-1036 (Stripper), S-1051 (Diolefin Reactor), and S-1052 (Hydrotreating Reactor), in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Recordkeeping]

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23. The Owner/Operator shall send any process vessel depressurization gas to a control device with an overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]

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CONDITION 23326

S27 PRF Regeneration Facilities

1. The owner/operator of S-27 Powerformer Regeneration System shall limit CO emissions discharged to the atmosphere through emission point P-41 to no more than 22 tons per calendar year. The CO emission limit may be increased based on additional testing, if approved by the APCO. (Basis: Cumulative Increase)
2. To demonstrate compliance with Part 1, the owner/operator shall calculate CO emissions annually from the S-27 Powerformer Regeneration System waste gas discharged to atmosphere. This calculation shall be based on the P-41 waste gas vent rate and a CO emission factor of 95 lb/MMSCF (1300 ppmv), or an alternate calculation approved by the APCO, within 30 days after the end of each year. These emission calculation 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: Recordkeeping)

CONDITION 23446

[APPLICATION 16656 \(Jan 2008\), S-157 Maintenance Allowance](#)

S157 Sulfur Storage Pit

1. The owner/operator shall abate the Sulfur Storage Pit (S-157) by either the sulfur Recovery Unit A Train Acid Gas Burner (S-1) and/or the Sulfur Recovery Unit B Train Acid Gas Burner (S-2) at all times, when S-1 and/or S-2 is in operation, except for up to 240 hours per calendar year to perform maintenance on S-157 vapor recovery/sparger system. (Basis: cumulative increase, EPA consent decree)
2. In order to demonstrate compliance with Part 1, the owner/operator of S-157 shall record the maintenance hours for S-157 vapor recovery/sparger system, summarized on a quarterly basis in a District approved log. These records shall be kept on site and made available for District inspection for at least five years from the date that the record was made. (Basis: Recordkeeping)

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CONDITION 24080

APPLICATION 18750 (Oct 2008). S-1034 (Deisobutanizer), S-1035 (Stripper), S-1049 (Reactor), S-1050 (Reactor) Alkylation/Butamer Unit

FUGITIVE EQUIPMENT

1.
 - a. The Owner/Operator shall equip all light hydrocarbon control valves installed as part of the VIP with live loaded packing systems and polished stems, or equivalent. [Basis: BACT, Cumulative Increase, offsets]
 - b. The Owner/Operator shall equip all flanges/connectors installed in the light hydrocarbon piping systems as a result of the VIP with graphitic-based gaskets unless the service requirements prevent this material. [Basis: BACT, Offsets, Cumulative Increase]
 - c. The Owner/Operator shall equip all new light hydrocarbon centrifugal pumps installed as part of the VIP with a seal-less design or with dual mechanical seals with a heavy liquid barrier fluid, or equivalent. [Basis: BACT, Offsets, Cumulative Increase]
 - d. The Owner/Operator shall integrate all new fugitive equipment installed as part of the VIP, in organic service, into the owner's fugitive equipment monitoring and repair program. [Basis: Compliance monitoring]
2. The Owner/Operator shall submit a count of installed pumps, valves, and flanges/connectors every 180 days until completion of the project. For flanges/connectors, the owner/operator shall also provide a count of the number of graphitic-based and non-graphitic gaskets used. The Owner/Operator has been permitted to install fugitive components (1,080 valves, 384 flanges/connectors, 6 pumps, 26 PSDs) with a total POC emission rate of 0.38 TPY for the entire Alkylation Modification/Butamer Unit Project. If there is an increase in the total fugitive component emissions from the Alkylation Modification/Butamer Unit Project, the plant's cumulative emissions for the Alkylation Modification/Butamer Unit Project shall be adjusted to reflect the difference between emissions based on predicted versus actual component counts. The Owner/operator may have enough remaining contemporaneous emissions reduction credits (ERC's) to cover any increase in POC fugitive emissions beyond the original projection. If not, the Owner/Operator shall provide to the District all additional required offsets at an offset ratio of 1.15:1 no later than 14 days after the submittal of the final POC fugitive equipment count for the Alkylation Modification/Butamer Unit Project. If the actual component count is less than the predicted, at the completion of the Alkylation Modification/Butamer Unit Project, the total will be adjusted accordingly. Any ERC's applied by the facility in excess of the actual total fugitive emissions will be credited back to Owner/Operator prior to issuance of the permits. [Basis: Cumulative Increase, Toxics]

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Condition# 24197

APPLICATION 16937 (Jan 2009), VIP Amendments. For S-21 or S-22, S-151, S-220, S-227, S-1007, S-1011, S-1020, S-1021, S-1022, S-1023, S-1024, S-1026 and S-1058

CLEAN FUELS PROJECT

APPLICATION 10392

APPLICATION 3782 Alkylation Production Project

PERMIT CONDITIONS

S-220 Hot Oil System

S-21 Hydrogen Reformer Furnace, F-301 or

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

F. The Owner/Operator shall install, maintain, calibrate and operate each CEM in accordance with all applicable District regulations. For Part number 15, the Owner/Operator shall include a data logging device that averages the CEM concentration readings for the Refinery fuel gas over the 24-hour time period (calendar day). [Basis: BACT]

Recordkeeping and Monthly Reporting

G. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. The Owner/Operator shall retain all records for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to,

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records of the following: [Basis: BACT]

Fuel usage type and amount for:

S-220 Hot Oil System

S-21 Hydrogen Reformer Furnace or

S-22 Hydrogen Reformer Furnace

CEM data and CEM indicated excesses:

Fuel gas H₂S concentration (24-hour Average):

Fuel gas total reduced sulfur Concentration (24-hour Average)

Fuel gas usage rates (cubic feet/day)

Fuel heat content, HHV [24-hour average]

Actual Firing Rate (Btu/month)

Miscellaneous

H. The Owner/Operator shall vent any process vessel depressurization gas to a control device with an overall capture and destruction efficiency of 95%, on a mass basis.

[Basis: Cumulative Increase]

I. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

FUGITIVES

S-1020 Heartcut Tower

S-1021 Heartcut Saturation Unit

S-1022 Catalytic Reformer T90 Tower

S-1023 Catalytic Naphtha T90 Tower

S-1024 Light Catalytic Naphtha Hydrotreater

S-1026 C5/C6 Splitter

S-220 Hot Oil System

S-227 Storage Tank

Deleted. [Basis: S-228 Storage Tank was never installed.]

Deleted. [Basis: S-229 Storage Tank was never installed.]

S-1007 Alkylation Unit

S-1011 Heavy Catalytic Naphtha Hydrotreater

S-1058 Virgin Light Ends Unit

S-151 Waste Water Treatment Unit

S-1003 Hydrocracking Unit

1. The Owner/Operator shall equip any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics]

a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier

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- 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
4. The Owner/Operator shall equip all hydrocarbon flow control valves installed as part of the Clean Fuels Project with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]
5. Except as required by Part number 4, the Owner/Operator shall equip all other hydrocarbon valves greater than 2 inches installed as part of the CFP with one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]
7. The Owner/Operator shall equip all flanges installed in the piping systems as a result of the CFP with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. Deleted rest of condition. [Deletion Basis: Leak repair requirements are covered under Regulation 8, Rule 18.] [Basis: BACT, Offsets, Cumulative Increase, Toxics]
8. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of the CFP with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The Owner/Operator shall vent all reciprocating compressors installed in hydrocarbon service as part of the CFP to a control device having at least a 95% control efficiency. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR Part 60, Subpart GGG. [Basis: BACT, Offsets, Cumulative Increase, Toxics, NSPS]
11. The Owner/Operator shall fit all process drains installed as part of the CFP with a "P" trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]
12. The Owner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1024, S-1026, S-220, S-227, S-1007, S-1011, S-1058 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]

FUEL GAS SYSTEM

13. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than any of the following: (a) 100 ppmv H₂S, averaged over a 24-hour calendar day and (b) the H₂S concentration limitation specified in NSPS 40 CFR 60, Subpart J. [Basis: Cumulative Increase, BACT, NSPS]
14. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment

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- to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]
15. The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21 or S-22 and S-220) [Basis: Monitoring and Records].
16. The Owner/Operator shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, the Owner/Operator shall report for the following S-220, S-21 or S-22:
- (a) daily fuel consumption,
 - (b) daily averaged H2S content of the refinery fuel gas
 - (c) daily averaged total reduced sulfur content
 - (d) quarterly daily averaged H2S content
 - (e) quarterly daily averaged total reduced sulfur content
 - (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]

COMBUSTION SOURCES

General Combustion

The following are general requirements for all new or modified combustion sources associated with the Clean Fuels Project:

17. The Owner/Operator shall only fire in all new and modified combustion sources (S-21 or S-22 and S-220), as part of the CFP, natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]
18. The Owner/Operator shall limit the total combined emissions from these new and modified combustion sources (S-21 or S-22 and S-220), installed as a part of the CFP to no more than the following annual limits: <[Basis: BACT, Cumulative Increase, Offsets]> <Basis: SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888>

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S-21 or S-22 and S-220

<u>Pollutant</u>	<u>Annual (tons)</u>
<u>NOx (1)</u>	<u>17.11 (S-220 only)</u>
<u>CO (2)</u>	<u>134.904</u>
<u>SO2 (2)</u>	<u>59.358</u>
<u>PM10 (2)</u>	<u>26.981</u>
<u>POC (2)</u>	<u>15.514</u>

Note 1. Deleted. [Basis: There is no NOx increase in emissions from the S-21 and S-22 Hydrogen Heaters.]

Note 2. Annual emissions to be adjusted upon shutdown of S-21 or S-22 per Condition 20820, Part 76.

19. The Owner/Operator shall equip the ~~two~~three furnaces (S-21 or S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Regulation 9-10-502.2]

20. The Owner/Operator shall calculate and totalize NOx, CO, POC, SO2 and PM10 emissions from all new and modified combustion sources (S-21 or S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be:

NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance

CO: 0.0200 lb/MMBtu

POC: 0.0023 lb/MMBtu

SO2: 0.0069 lb/MMBtu

PM10: 0.0040 lb/MMBtu

The Owner/Operator shall retain the results on site for a period of at least five years and make them available to District staff upon request.

[Basis: BACT, Cumulative Increase]

21. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S-21 or S-22 and S-220) or the three abatement devices (A-43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]

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22. For purposes of permitting S-220, S-21 or S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24 hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]

S-220 Hot Oil System

23. Except during startup and shutdown, the Owner/Operator shall limit emissions of nitrogen oxides from the S-220 Hot Oil System to no more than 10 ppmv, dry, corrected to 3% oxygen, (0.0118 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, Offsets, Cumulative Increase]

24. For the S-220 Hot Oil System, the Owner/Operator shall limit the CO emissions to no more than 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MM Btu) averaged over 8 hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]

25. The Owner/Operator shall abate S-220 at all times by A-45 Selective Catalytic Reduction System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]

26. Except during periods of startup and shutdown, the Owner/Operator shall limit ammonia emissions (ammonia slip) from the SCR unit (A-45) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. [Basis: BACT, Offsets, Cumulative Increase]

27. For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]

29. The Owner/Operator shall limit the total combined heat input for S-220 to no more than 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]

30. The Owner/Operator shall limit the firing rate of the S-220 MRU Hot Oil Furnace to no more than 351 million Btu per hour (Maximum firing rate). (Basis: Cumulative Increase, Toxics)

S-21 Hydrogen Reformer Furnace, F-301 or
S-22 Hydrogen Reformer Furnace, F-351

31. For the S-21 or S-22 furnaces, the Owner/Operator shall limit the emissions of nitrogen oxides based on CEM data to no more than 60 ppmv, dry, corrected to 3% oxygen, (0.0708 lb/MMBtu) averaged over any consecutive 24 hour period, except during periods of startup and shutdown. For the S-21 or S-22 furnaces when monitored without a CEM, the Owner/Operator shall limit the emissions of nitrogen oxides to no more than 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method

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- outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]
32. For the S-21 or S-22 furnaces, the Owner/Operator shall limit emissions of CO to no more than 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]
33. The Owner/Operator shall equip Sources S-21 or S-22 with low NOx burners. The Owner/Operator shall operate the low NOx burners systems in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]
37. The Owner/Operator shall limit the total combined heat input for S-21 and S-22 to no more than 106 million therms (10.6 trillion Btus) in any 365 consecutive day period. [Basis: Cumulative Increase, Offsets] Note: To be adjusted upon shutdown of S-21 or S-22 per Condition 20820, Part 76.
38. The Owner/Operator shall limit the firing rate of the S-21 or S-22 Hydrogen Reforming Furnaces to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)

TANKAGE

S-227 175,000 Barrel Fixed Roof Tank

42. The S-227 Pentane Storage Tank installed by the Owner/Operator shall be a fixed roof tank connected to the A-46/A-47 vapor recovery system. NSPS requirements of 40 CFR Part 60, Subpart Kb will be applied to this tank. [Basis: Cumulative Increase, Offsets, Toxics]
43. The Owner/Operator shall operate Tank S-227 with a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]
44. The Owner/Operator shall not store any material in S-227 storage tank, other than the materials specified in this application for the tank, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Owner/Operator shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]
45. The Owner/Operator shall vent all POC emissions from tank cleaning, degassing, or product changeout to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]

OFFSETS (DISTRICT EMISSIONS BANK)

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51. The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels. (Basis: BACT, Cumulative Increase)
52. The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emission from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)

Condition 24198

APPLICATION 16937 (Jan 2009), VIP Amendments. Condition supersedes Condition 19466 upon activation of Condition 20820, Part 21.a triggers

1. The Owner/Operator shall operate S-160 Seal Oil Sparger only when abated by A-13/A-26 Vapor Recovery Compressor to be returned to the refinery fuel gas system. (Basis: Cumulative Increase)
2. The Owner/Operator shall abate emissions from S-8 coke storage tanks by A-8 and/or A-10 baghouses at all times. (Basis: Cumulative Increase)
3. The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-11, and S-176, ~~S-233~~ to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). For S-176 only, this monitoring is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]
4. The Owner/Operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours or within the next normal business day after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]
5. The Owner/Operator shall abate the emissions from the S-1059 and S-1060, PS Furnaces by SCR's A-1059 and/or A-1060 and Prescrubber/Regenerative Amine Scrubber A-1047, except during startup, shutdown, emergency bypass and bypass periods, and the Owner/Operator shall exhaust those emissions through the FCCU/CKR stack (P-1059).

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[Basis: Regulation 6-1-301 and Regulation 6-1-304].

6. Deleted (Redundant with quarterly PM10 source test requirement in Condition 20820, Part 72)
7. The Owner/Operator shall perform an annual source test on Sources S-8 and S-176 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no lessmore than 4560 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. For S-176 only, this source test is only required when dry salt is added to the tank. For S-8, compliance with Regulation 6-301 shall be demonstrated at the outlet of A-8/A-10 baghouses. [Basis: Regulation 6-310]
8. The Owner/Operator shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO3 and H2SO4). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no lessmore than 4560 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. Deleted (Redundant with quarterly PM10 source test requirement in Condition 20820, Part 72)
10. The Owner/Operator shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21 or S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no lessmore than 4560 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.

The Owner/Operator shall ensure that S-220 does not exceed 400 ppmv of CO, dry, at 3% O2, operating day average, measured by a properly installed CEM for CO and O2. [Basis: Regulation 9-10-305]
11. The Owner/Operator shall conduct a semi-annual District-approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NOx not to

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exceed 55 ppmv, dry, at 15% O₂, fired on refinery fuel gas). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no lessmore than 4560 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 Owner/Operator shall abate the VOC emissions from the S-159 Lube Oil Reservoir using the S-36 Boiler. [Basis: Cumulative Increase]

13. The Owner/Operator shall vent the VOC emissions from S-167 and S-168 Seal Oil Spargers in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system. [Basis: Cumulative Increase]

14. The Owner/Operator shall use the continuous emission monitors required by Regulation 9, Rule 10, to monitor compliance for all NO_x limits at the following sources:
Process Furnaces: S-21 or S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220
Steam Generators: S-40, S-41
[Basis: Regulation 9-10]

15. The Owner/Operator shall use the continuous opacity monitors or an approved alternate monitoring plan (AMP) required by Regulation 1-520 to monitor compliance for the opacity limits at the FCCU/CKR Stack for the following sources:
S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator
S-6 Fluid Coker, Burner
[Basis: Regulation 1-520]

CONDITION 24239

S-5 FCCU Catalyst Regenerator

APPLICATION 18165 (April 2008/Jan 2009), Add NSPS Subpart J CO and PM emission standards per Consent Decree

1. The owner/operator of FCCU Regenerator (S-5) shall be subject to 40 CFR Part 60, Subpart J for carbon monoxide (CO), particulate matter, and opacity and the Owner/Operator shall comply with all applicable provisions of 40 CFR Part 60, Subparts A and J for FCCU Regenerators. (Basis: Consent Decree VII. Paragraph 96)
2. The owner/operator of the FCCU (S-5) shall not exceed 500 ppmvd of CO at 0% O₂, measured as a one-hour block average. (Basis: Consent Decree VII. Paragraph 94)
3. The owner/operator of the FCCU (S-5) shall not exceed 1 pound of particulate emission per 1000 pounds of coke burned (front half only according to Method 5B or 5F, as appropriate).

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- measured as a one-hour average over three performance test runs. (Basis: Consent Decree VII. Paragraph 95)
4. The owner/operator of the FCCU (S-5) does not need to comply with the CO, opacity, and particulate limits in Parts 1-3 during periods of startup, shutdown or malfunction of the FCCU or malfunction of the applicable control equipment, if any. (Basis: Consent Decree VII. Paragraph 102)
 5. The Owner/Operator is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR Part §60.7, with respect to the provisions of 40 CFR Part 60, Subparts A and J, as such requirements apply to relate to CO, opacity, and particulate matter emissions from FCCU regenerators. (Basis: Consent Decree VII. Paragraph 100)
 6. To the extent that the Owner/Operator has conducted any performance testing for PM emissions in accordance with Method 5B or 5F, as appropriate, or 40 CFR Part 63, Subpart UUU, and demonstrated compliance with the PM emission limits, then such performance testing shall satisfy any obligation otherwise applicable to conduct performance testing under 40 CFR Part 60, Subparts A and J. Any future performance testing to demonstrate compliance with the PM emission limitations shall be conducted in accordance with EPA Method 5B or 5F, as appropriate per 40 CFR Part 60, Appendix A. (Basis: Consent Decree VII. Paragraph 101)
 7. The owner/operator of the FCCU (S-5) shall maintain the Alternate Monitoring Plans for CO, PM, and Opacity as follows:
 - a. Alternative monitoring for CO. Compliance with CO achieved through use of 40 CFR Part 63, Subpart UUU, 63.1565(b)(1)(ii) option to vent emissions to a boiler or process heater with a design capacity of at least 44 MW in lieu of CO CEMS. AMP approved by EPA January 10, 2007.
 - b. Alternative monitoring for PM. Compliance with PM demonstrated through use of a Site-Specific Test Plan used to determine the FCCU regenerator contribution to Main Stack PM emissions. AMP approved by EPA January 10, 2007.
 - c. Alternative monitoring for Opacity. Compliance with opacity demonstrated by COMS in approved alternate stack location. AMP approved by EPA February 18, 2009. (Basis: 40 CFR Part 60.13(i), Alternate Monitoring Plans)

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CONDITION # 24245

APPLICATION 18165 (Jan 2009): Add NSPS Subpart J SO2 emission standards per Consent Decree

1. The South Flare (S18) and North Flare (S19) shall be affected facilities under 40 CFR Part 60, Subpart J. (Basis: Consent Decree §§ 231, 232, 238(a)(i))
2. Permittee/Owner/Operator shall comply with 40 CFR Part 60, Subpart J for the South Flare (S18) and North Flare (S19) by operating and maintaining a flare gas recovery system to control continuous or routine combustion in the flaring devices. Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 C.F.R. §§ 60.105(a)(4) and 60.7. (Basis: Consent Decree §§ 235(a))
3. The combustion in a Flaring Device of process upset gases (as defined by 40 CFR Part 60.101(e)) or fuel gas that is released to the Flaring Device as a result of relief valve leakage or other emergency malfunctions is exempt from the requirement to comply with 40 CFR Part 60.104(a)(1). (Basis: Consent Decree §§ 241)
4.

<u>S7 Process Furnace (F103)</u>	<u>S32 Process Furnace (F2903)</u>
<u>S20 Process Furnace (F104)</u>	<u>S33 Process Furnace (F2904)</u>
<u>S24 Process Furnace (F601)</u>	<u>S34 Process Furnace (F2905)</u>
<u>S25 Process Furnace (F701)</u>	<u>S35 Process Furnace (F2906)</u>
<u>S30 Process Furnace (F2901)</u>	<u>S42 Process Furnace (F1060)</u>
<u>S31 Process Furnace (F2902)</u>	

The heaters and boilers listed above shall be “affected facilities” under 40 CFR Part 60, Subpart J as fuel gas combustion devices. Except as allowed in this permit condition, the owner/operator shall comply with all applicable provisions of 40 CFR Part 60, Subparts A and J for these fuel gas combustion devices, except during periods of startup, shutdown, or malfunction of the affected facilities or the malfunction of the associated control equipment, if any, provided that during startup, shutdown, or malfunction, the owner/operator shall, to the extent practicable, maintain and operate the affected facilities including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: NSPS Subparts A and J, EPA Consent Decree §§ paragraphs 12, 115, 118, 122)

5. The owner/operator is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR Part 60.7, with respect to the provisions of 40 CFR Part 60, Subparts A and J, as such requirements apply to the

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fuel gas combustion devices listed in Part 4 of this permit condition. (Basis: EPA Consent Decree paragraph 120)

6. The owner/operator shall use either continuous emissions monitoring systems (CEMS) or an approved alternative monitoring plan (AMP) to demonstrate compliance with the 40 CFR Part 60, Subpart J emission limits for the fuel gas combustion devices listed in Part 4 of this permit condition. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraph 121)
7. The owner/operator shall conduct the accuracy tests listed below on the CEMS used to comply with Part 6 unless that CEMS is otherwise subject to the requirements of 40 CFR Part 60, Subparts A and J. These accuracy tests are allowed in lieu of the requirements of 40 CFR Part 60, Appendix F §§ 5.1.1, 5.1.3, and 5.1.4.
 - a. Conduct either a RAA or a RATA on each CEMS at least once every three years.
 - b. Conduct a CGA on each CEMS each calendar quarter during which a RAA or a RATA is not performed.
 - c. Conduct a FAT, as defined in BAAQMD regulations or procedures, if desired, in lieu of any required RAA or CGA.
(Basis: EPA Consent Decree paragraph 121)

CONDITION 24261

APPLICATION 18165 (Feb 2009): AMPs for NOx CEMS Span, S-220, S-237, S-1031

1. The Owner/Operator shall maintain the approved Alternate Monitoring Plan (AMP) for Nitrogen Oxides to demonstrate compliance with the 40 CFR Part 60.48b(e)(2)(i) requirement for NOx CEMS span. AMP approved by EPA February 5, 2009. (Basis: 40 CFR Part 60.13(i), Alternate Monitoring Plans)

CONDITION 24297

Authority to Construct Conditions for S-165:

- ~~1. The VST EVR Phase II Vapor Recovery System with the Veeder Root Vapor Polisher, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order (E.O.). VR 203. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.~~
- ~~2. Only CARB-certified EVR Phase I vapor recovery systems shall be used in conjunction~~

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~~with the VST EVR Phase II Vapor Recovery System.~~

~~3. The owner/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made.~~

~~a. Monthly throughput of gasoline pumped, summarized on an annual basis~~

~~b. A record of all testing and maintenance as required by E.O. VR-203, Exhibit 2. The records shall include the maintenance or test date, repair date to correct test failure, maintenance or test performed, affiliation, telephone number, name and Certified Technician Identification Number of individual conducting maintenance or test.~~

~~4. All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute. Vapor Tight is as defined in District Manual of Procedures, Volume IV, ST-30.~~

~~5. Start up notification: applicant must contact the assigned Permit Engineer, listed in the correspondence section of this letter, by phone, by fax [(415) 749-4949], or in writing at least three days before the initial operation of the equipment is to take place. Operation includes any start up of the source for testing or other purposes. Operation of equipment without notification being submitted to the District, may result in enforcement action. Please do not send start up notifications to the Air Pollution Control Officer.~~

~~6. The following performance tests shall be successfully conducted at least ten (10) days, but no more than thirty (30) days after start up. For the purpose of compliance with this Condition, all tests shall be conducted after back filling, paving, and installation of all required Phase I and Phase II components:~~

~~a. Static Pressure Performance Test using CARB Test Procedure TP-201.3 (3/17/99) in accordance with E.O. VR-203, Ex. 4. If the tank size is 500 gallons or less, the test shall be performed on an empty tank.~~

~~b. Dynamic Back Pressure Test using CARB Test Procedure TP-201.4 (7/3/02) in accordance with the condition listed in item 1 of the Vapor Collection Section of E.O. VR-203, Exhibit 2. The dynamic back pressure shall not exceed 0.35" WC @ 60 CFH and 0.62" WC @ 80 CFH.~~

~~c. Liquid Removal Test using E.O. VR-203, Exhibit 5.~~

~~d. Vapor Pressure Sensor Verification Test using E.O. VR-203, Exhibit 8~~

~~e. Nozzle Bag Test on all nozzles in accordance with E.O. VR-203, Exhibit 10.~~

~~f. Veeder-Root Vapor Polisher Operability Test in accordance with E.O. VR-204, Exhibit 11.~~

~~g. Veeder-Root Vapor Polisher Emissions Test in accordance with E.O. VR-204, Exhibit 12.~~

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- ~~7. The VST EVR Phase II system with the Veeder-Root Vapor Polisher shall be capable of demonstrating on-going compliance with the vapor integrity requirements of CARB Executive Order E.O. VR 203. The owner or operator shall conduct and pass the following tests at least once in each consecutive 12-month period following successful completion of start-up testing. Tests shall be conducted and evaluated using the above referenced test methods and standards:
 - ~~a. Static Pressure Performance Test – TP 201.3~~
 - ~~b. Dynamic Back Pressure Test – TP 201.4~~
 - ~~c. Liquid Removal Test – E.O. VR 203, Exhibit 5~~
 - ~~d. Vapor Pressure Sensor Verification Test – E.O. VR 203, Exhibit 8~~
 - ~~e. Veeder-Root Vapor Polisher Operability Test in accordance with E.O. VR 204, Exhibit 11.~~
 - ~~f. Veeder-Root Vapor Polisher Emissions Test in accordance with E.O. VR 204, Exhibit 12.~~~~
- ~~8. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109).~~
- ~~9. The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be fifteen (15) feet.~~
- ~~10. The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the trigger at the highest setting. Compliance with this condition shall be verified using the applicable provisions of E.O. VR 203, Ex. 5. Flow limiters may not be used.~~
- ~~11. A Vapor Pressure Sensor shall be installed in the dispenser closest to the underground tanks.~~
- ~~12. The TLS console controlling the Veeder-Root Vapor Polisher shall be equipped with a printer and have an open-RS232 port that is accessible to District staff during operating hours.~~
- ~~13. Except when necessary for testing and maintenance, the Veeder-Root Vapor Polisher shall be on and in automatic vapor processor mode with the inlet valve in the open position per E.O. VR 203, Ex. 2. The handle shall not be removed for any reason.~~

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- ~~14. The outlet of the Veeder-Root Vapor Polisher shall be at least 12 feet above grade.~~
- ~~15. The station shall maintain OSHA approved access to the Veeder Root Vapor Polisher. This access should be provided immediately upon request by District personnel.~~
- ~~16. The VST EVR Phase II Vapor Recovery System shall be maintained and operated in accordance with E.O. VR-203 and the System Operating Manual approved by CARB.~~
- ~~17. Security tags shall be installed and maintained on the Veeder-Root Vapor Polisher. A Veeder-Root Vapor Polisher Operability Test and a Veeder-Root Vapor Polisher Emissions Test shall be performed after the replacement of any damaged or missing tags using the above referenced test methods and subject to the above notification and reporting requirements.~~
- ~~18. The headspace of all underground tanks connected to VST-EVR Phase II Vapor Recovery System shall be connected by a manifold below grade at the tanks and/or a manifold between the vent lines.~~
- ~~19. For stations installed or performing a major modification of underground vapor piping after April 1, 2003, all vapor recovery piping shall be a minimum of 2" from the vent stack or dispensers to the first manifold and a minimum of 3" in diameter from the manifold to the underground tanks, with the headspace of all tanks connected by a below grade manifold. The following piping shall slope down towards the lowest octane tank with a minimum slope of 1/8" per linear foot:
 - ~~a) Any manifold piping connecting the storage tank headspaces.~~
 - ~~b) All vapor recovery piping between the dispenser and storage tank.~~
 - ~~c) Vent piping from the base of the vent pipe to the storage tank(s). A major modification is considered a project that adds to, replaces, or removes more than 50% of the underground vapor piping.~~~~
- ~~20. Condensate traps or knock-out pots are prohibited.~~
- ~~21. Each storage tank vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve as required by the applicable Phase I E.O.. Vents pipes may be manifolded to reduce the number of relief valves needed. No relief valve shall be installed on the Veeder-Root Vapor Polisher outlet.~~
- ~~22. The Veeder-Root EVR system and TLS console may only be installed and serviced by contractors that have completed the Veeder-Root training program. Installation and start-up shall be in accordance with VR-203 and the Veeder-Root installation manual.~~

VI. Permit Conditions

COND# 24298

Permit to Operate Conditions for S-165:

1. The VST EVR Phase II Vapor Recovery System with the Veeder-Root Vapor Polisher without ISD, including all associated underground plumbing, shall be installed, operated, and maintained in accordance with the most recent revision of the California Air Resources Board (CARB) Executive Order (E.O.) VR-203. Section 41954(f) of the California Health and Safety Code prohibits the sale, offering for sale, or installation of any vapor control system unless the system has been certified by the state board.
2. The owner/operator of the facility shall maintain records in accordance with the following requirements. Records shall be maintained on site and made available for inspection for a period of 24 months from the date the record is made.
 - a. Monthly throughput of gasoline pumped, summarized on an annual basis
3. All applicable components shall be maintained to be leak free and vapor tight. Leak Free, as per BAAQMD (District) Regulation 8-7-203, is a liquid leak of no greater than three drops per minute. Vapor Tight, as per District Regulation 8-7-206, is a leak of less than 100 percent of the lower explosive limit on a combustible gas detector measured at a distance of 1 inch from the source or absence of a leak as determined by the District Manual of Procedures, Volume IV, ST-30 or CARB Method TP-201.3.
4. The VST EVR Phase II system with the Veeder-Root Vapor Polisher without ISD shall be capable of demonstrating on-going compliance with the vapor integrity requirements of CARB Executive Order E.O. VR-203. The owner or operator shall conduct and pass the following tests at least once in each consecutive 12-month period following successful completion of start-up testing. Tests shall be conducted and evaluated using the below referenced test methods and standards.
 - a. Static Pressure Performance Test - TP-201.3
 - b. Dynamic Back Pressure Test - TP-201.4 (7/3/02) in accordance with the condition listed in item 1 of the Vapor Collection Section of E.O. VR-203, Exhibit 2. The dynamic back pressure shall not exceed 0.35" WC @ 60 CFH and 0.62" WC @ 80 CFH
 - c. Liquid Removal Test - E.O. VR-203, Exhibit 5, Option 1 (Only test hoses containing more than 25 ml liquid)
 - d. Vapor Pressure Sensor Verification Test - E.O. VR-203, Exhibit 8,
 - e. Veeder-Root Vapor Polisher Operability Test. E.O. VR-203, Exhibit 11
 - f. Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203, Exhibit 12
5. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application

VI. Permit Conditions

number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, 939 Ellis Street, San Francisco CA 94109).

6. The maximum length of the coaxial hose assembly, including breakaway, swivels, and whip hoses, shall be fifteen (15) feet.
7. The dispensing rate shall not exceed ten (10.0) gallons per minute (gpm), nor be less than six (6.0) gpm with the nozzle trigger at the highest setting. Compliance with this condition shall be verified using the applicable provisions of E.O. VR-203, Ex. 5. Flow limiters may not be used.
8. The TLS console controlling the Veeder-Root Vapor Polisher shall be equipped with a printer and have an open RS232 port that is accessible to District staff during operating hours.
9. Except when necessary for testing and maintenance, the Veeder-Root Vapor Polisher shall be on and in automatic vapor processor mode with the inlet valve in the open position per E.O. VR-203, Ex. 2. The handle shall not be removed for any reason.
10. The station shall maintain OSHA-approved access to the Veeder-Root Vapor Polisher. This access should be provided immediately upon request by District personnel.
11. Security tags shall be installed and maintained on the Veeder-Root Vapor Polisher. A Veeder-Root Vapor Polisher Operability Test and a Veeder-Root Vapor Polisher Emissions Test shall be performed after the replacement of any damaged or missing tags using the above referenced test methods and subject to the above notification and reporting requirements.
12. Each storage tank vent pipe shall be equipped with a CARB certified pressure/vacuum relief valve as required by the applicable Phase I E.O.. Vents pipes may be manifolded to reduce the number of relief valves needed. No relief valve shall be installed on the Veeder-Root Vapor Polisher outlet.

Condition # 76003

Application 26003 (1977) for MMT Octane Additive.

Deleted. Additive no longer available and S108 out of service.

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.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

**Table VII – Refinery
 Applicable Limits and Compliance Monitoring Requirements
 REFINERY-WIDE APPLICABILITY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Ambient SO ₂	BAAQMD Regulation 9-1-301	Y		Ground level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hrs)	BAAQMD Regulations 9-1-501, 9-1-310.3, AND 9-1-110	C	SO ₂ GLM
Ambient H ₂ S	BAAQMD Regulation 9-2-301	N		Limitations on H ₂ S ground level concentrations	BAAQMD 9-2-501	C	H ₂ S GLM
		Y		Refinery MACT Startup, Shutdown, Malfunction Report	40 CFR Part 63 Subpart CC 63.654(h)	P/SA	Report
		Y		Refinery MACT Periodic Report	40 CFR Part 63 Subpart CC 63.654(g)	P/SA	Report
		Y		Benzene Waste NESHAPS Annual Report	40 CFR Part 61 Subpart FF 61.357(d)(2) 61.357(d)(8)	P/A	Report
Benzene	40 CFR	Y		Uncontrolled and	40 CFR Part	P/A	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
in Waste	Part 6+ Subpart FF 61.342(e) (2)(i)			Controlled benzene <6 megagrams/year	6+ Subpart FF 61.357(d)(5) 61.356(b)(4)		Records
		Y		Benzene Waste NESHAPS Quarterly Report	40 CFR Part 6+ Subpart FF 61.357(d)(6) 61.357(d)(7)	P/Q	Report
<u>Benzene in Waste</u>	40 CFR Part 6+ Subpart FF 61.345(b)	Y		Visual inspection of container covers	40 CFR Part 6+ Subpart FF 61.345(b)	P/Q	Visual Inspection
Vapor Pressure	BAAQMD 8-5-301 SIP 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-328.1 8-5-331	N		Tank degassing or cleaning control device 90% abatement efficiency	BAAQMD 8-5-502.2	P/A	Source test
VOC	SIP 8-5-328.1.2	Y		Tank degassing control device standard; includes 90% abatement efficiency requirement.	SIP 8-5-502	P/A	Source test
VOC	BAAQMD 8-5-332	N		Tank sludge container standards; includes gap criteria	BAAQMD 8-5-332	N	None
VOC	BAAQMD Condition #20762, part 1 BAAQMD 8-5-117	Y		True vapor pressure no greater than 0.5 psia when service changes for tanks exempt from BAAQMD 8-5 due to 8-5-117	BAAQMD Condition #20762, parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
VOC	SIP 8-10-301	Y		Abatement of emissions from process vessel depressurization is required	SIP 8-10-401 BAAQMD	P/E	Records of hydrocarbon concentration

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
				until pressure is reduced to less than 1000 mm Hg	8-10-501 and 8-10-502		emissions
VOC	BAAQMD 8-10-302	N		No process vessel may be opened to atmosphere unless organic compounds have been reduced to less than 10,000 ppm (methane). A refinery vessel may exceed this limit provided total number of such vessels does not exceed 10% of total vessel population over 5-consecutive year period and total mass organic compound emissions are less than 15 lb/day.	BAAQMD 8-10-501 and 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 and records of measured hydrocarbon concentration emissions and mass emission calculations.

**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
NOx	BAAQMD Condition 125, Part 5	Y		1.842 lb/hr; 8.064 tons/yr	BAAQMD Condition 125, Part 7	P/E	Initial Source Test
					BAAQMD Condition 125, Part 8	P/A	Source Test
CO	BAAQMD Condition 125, Part 5	Y		1.547 lb/hr; 6.774 tons/yr	BAAQMD Condition 125, Part 7	P/E	Initial Source Test
POC	BAAQMD	Y		0.102 lb/hr;	BAAQMD	P/E	Initial

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
	Condition 125, Part 5			0.444 tons/yr	Condition 125, Part 7		Source Test
PM10	BAAQMD Condition 125, Part 5	Y		0.140 lb/hr; 0.613 tons/yr	BAAQMD Condition 125, Part 7	P/E	Initial Source Test
Opacity	BAAQMD Regulation 6-1-301	Y N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3, superseded by Condition 24198, Part 3	P/M	Visual Inspection
<u>Opacity</u>	<u>SIP</u> 6-301	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 3, superseded by Condition 24198, Part 3</u>	<u>P/M</u>	<u>Visual Inspection</u>
FP	BAAQMD Regulation 6-1-310	Y N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP</u> 6-310	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
SO ₂	BAAQMD Condition 125, Part 5	Y		0.011 lb/hr; 0.048 tons/yr	BAAQMD Condition 125, Part 7	P/E	Initial Source Test
SO ₃ , H ₂ SO ₄	BAAQMD Regulation 6-1-330	Y N		0.08 grain/dscf exhaust concentration of SO ₃ and/or H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	BAAQMD Condition # 19466 Part 8, superseded by Condition 24198, Part 8	P/A	Source Test
<u>SO₃, H₂SO₄</u>	<u>SIP</u>	<u>Y</u>		<u>0.08 grain/dscf exhaust</u>	<u>Condition</u>	<u>P/A</u>	<u>Source Test</u>

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
	6-330			concentration of SO₂ and/or H₂SO₄, expressed as 100% H₂SO₄	19466 Part 8, superseded by Condition 24198, Part 8		
H ₂ S	BAAQMD Regulation 9-1-313.2	N		95% of H ₂ S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H ₂ S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	None	N	N/A
H ₂ S	SIP 9-1-313.2	Y		Recovery of 95% of H ₂ S in refinery fuel gas	None	N	N/A
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(2)(ii)	Y		H ₂ S less than 10 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv	40 CFR Part 60 Subpart J 60.106(a); BAAQMD Condition 125, Part 9	P/E	Initial Performance Test
Reduced Sulfur (TRS)	40 CFR Part 60 Subpart J 60.104(a)(2)(ii)	Y		Reduced sulfur compounds less than 300 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv, averaged over 12 hours	40 CFR Part 60 Subpart J 60.105(a)(6)	C	CEM
Reduced	40 CFR	Y		Reduced sulfur compounds	40 CFR Part	C	CEM

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
Sulfur Compounds (TRS)	Part 63.1568(a)(1)			less than 300 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv, averaged over 12 hours	63.1568(b)(1)		

**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
NOx	BAAQMD Condition 126, Part 5	Y		1.842 lb/hr; 8.064 tons/yr	BAAQMD Condition 126, Part 7	P/E	Initial Source Test
					BAAQMD Condition 126, Part 8	P/A	Source Test
CO	BAAQMD Condition 126, Part 5	Y		1.547 lb/hr; 6.774 tons/yr	BAAQMD Condition 126, Part 7	P/E	Initial Source Test
POC	BAAQMD Condition 126, Part 5	Y		0.102 lb/hr; 0.444 tons/yr	BAAQMD Condition 126, Part 7	P/E	Initial Source Test
PM10	BAAQMD Condition 126, Part 5	Y		0.140 lb/hr; 0.613 tons/yr	BAAQMD Condition 126, Part 7	P/E	Initial Source Test
Opacity	BAAQMD Regulation 6-1- 301	Y N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3, superseded by Condition	P/M	Visual Inspection

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
					24198, Part 3		
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3, superseded by Condition 24198, Part 3	P/M	Visual Inspection
FP	BAAQMD Regulation 6-1-310	Y/N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
SO ₂	BAAQMD Condition 126, Part 5	Y		0.011 lb/hr; 0.048 tons/yr	BAAQMD Condition 126, Part 7	P/E	Initial Source Test
SO ₃ , H ₂ SO ₄	BAAQMD Regulation 6-1-330	Y/N		0.08 grain/dscf exhaust concentration of SO ₃ and/or H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	BAAQMD Condition # 19466 Part 8, superseded by Condition 24198, Part 8	P/A	Source Test
SO₃, H₂SO₄	SIP 6-330	Y		0.08 grain/dscf exhaust concentration of SO₃ and/or H₂SO₄, expressed as 100% H₂SO₄	Condition 19466 Part 8, superseded by Condition 24198, Part 8	P/A	Source Test
H ₂ S	BAAQMD Regulation 9-1-313.2	N		95% of H ₂ S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H ₂ S in process water streams is removed and recovered on a refinery-	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-2 (F1301B) – SULFUR PLANT, RELATED SOURCES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				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			
H ₂ S	SIP 9-1-313.2	Y		Recovery of 95% of H ₂ S in refinery fuel gas	None	N	N/A
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(2)(ii)	Y		H ₂ S less than 10 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv	40 CFR Part 60 Subpart J 60.106(a); BAAQMD Condition 126, Part 9	P/E	Initial Performance Test
Reduced Sulfur (TRS)	40 CFR Part 60 Subpart J 60.104(a)(2)(ii)	Y		Reduced sulfur compounds less than 300 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv, averaged over 12 hours	40 CFR Part 60 Subpart J 60.105(a)(6)	C	CEM
Reduced Sulfur Compounds (TRS)	40 CFR Part 63.1568(a)(1)	Y		Reduced sulfur compounds less than 300 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv, averaged over 12 hours	40 CFR Part 63.1568(b)(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**

**To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD Regulation 9-10-502.1	C	CEM
<u>CO</u>	<u>Condition 20820, Part 21.b.v</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>35.2 ppm (3% O₂), 365-day average; 214.5 tons/calendar year</u>	<u>Condition 20820 Part 21.b.v</u>	<u>C</u>	<u>CEM</u>
Fuel Flow	BAAQMD Title V Permit, Table II A	N		46.3 MM therms/year CO+RFG (S-3) 22.7 MM therms/year CO+RFG (S-4)	BAAQMD Regulation 9-10-502.2; BAAQMD Condition #11030 Part 7	C	Fuel Flow CPMS Flowmeter
NO _x	BAAQMD Regulation 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm NO _x (dry, 3% O ₂), operating day average	BAAQMD Condition #19466 Part 14	C	CEM
NO _x	BAAQMD Regulation 9-10-304.1	N		CO Boiler emissions: 150 ppm (dry, 3% O ₂), operating day average	BAAQMD Regulation 9-10-502.1	C	CEM
NO _x	BAAQMD Condition # 11030 Part 3	Y		NO _x emissions from abated sources shall not exceed 150 ppm NO _x (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
<u>NO_x</u>	<u>Condition 20820, Part 21.b.i</u>	<u>Y</u>	<u>Upon activation of Condition</u>	<u>77.9 ppm (3% O₂), 365-day average; 779.9 tons/calendar year</u>	<u>Condition 20820 Part 21.b.i</u>	<u>C</u>	<u>CEM</u>

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**

**To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
			<u>20820, Part 21.a triggers</u>				
O ₂		N		No limit	BAAQMD Regulation 9-10-502.1	C	CEM
SO ₂	<u>Condition 20820, Part 21.b.ii</u>	Y	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>440 ppm (3% O₂), 365-day average; 6,132 tons/calendar year</u>	<u>Condition 20820 Part 21.b.ii</u>	<u>C</u>	<u>CEM</u>
Opacity	BAAQMD Regulation 6-1-301	Y N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 5	C	Exhaust through main stack which has a COM
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 5</u>	<u>C</u>	<u>Exhaust through main stack which has a COM</u>
Opacity	BAAQMD Regulation 6-1-304	Y N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 19466- Part 5	C	Exhaust through main stack which has a COM
<u>Opacity</u>	<u>SIP 6-304</u>	<u>Y</u>		<u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u>	<u>Condition 19466- Part 5</u>	<u>C</u>	<u>Exhaust through main stack which has a COM</u>
FP	BAAQMD Regulation 6-1-310	Y N		0.15 grain/dscf	None Condition 22156, Part 3	N C	N/A Opacity- exceeding 30% means exceeding 6-1-310

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**

**To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition</u> <u>22156, Part</u> <u>3None</u>	<u>CN</u>	<u>Opacity-</u> <u>exceeding 30%</u> <u>means</u> <u>exceeding 6-1-</u> <u>310N/A</u>
FP	BAAQMD <u>Regulation</u> 6- <u>1</u> -310.3	Y <u>N</u>		0.15 grain/dscf @ 6% O ₂	BAAQMD Condition # 22156 Part 1	C	Opacity
					<u>Condition</u> <u>22156, Part 3</u>	<u>C</u>	<u>Opacity-</u> <u>exceeding 30%</u> <u>means</u> <u>exceeding 6-1-</u> <u>310</u>
					<u>Condition</u> <u>19466, Part 5e</u>	<u>P/E</u>	<u>Initial Source</u> <u>Test with 3 out</u> <u>of 5 ESPs</u>
<u>FP</u>	<u>SIP</u> <u>6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6%</u> <u>O₂</u>	<u>Condition</u> <u>22156 Part 1</u>	<u>C</u>	<u>Opacity</u>

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
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					<u>Condition 22156, Part 3</u>	<u>C</u>	<u>Opacity- exceeding 30% means exceeding 6-1-310</u>
					<u>Condition 19466, Part 5e</u>	<u>P/E</u>	<u>Initial Source Test with 3 out of 5 ESPs</u>
<u>FP³</u>	<u>BAAQMD 6-1-311</u>	<u>N</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>Condition 19466 Part 6</u>	<u>A</u>	<u>Source Test</u>
<u>FP³</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>Condition 19466 Part 6</u>	<u>A</u>	<u>Source Test</u>
<u>FP</u>	<u>BAAQMD Regulation 6-1-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>BAAQMD Condition # 19466, Part 5e</u>	<u>P/E</u>	<u>Initial Source Test with 3 out of 5 ESPs</u>

³ Emission limits for particulate matter apply to S-5 FCCU and S-6 Fluid Coker, but are monitored at S-3 and S-4 CO Furnaces

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
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
PM10	Condition 20820, Part 21.b.iii	Y	Upon activation of Condition 20820, Part 21.a triggers	40 lb/hr; 115.4 tons/calendar year	Condition 20820 Part 21.c	P/I	Initial Source Test
					Condition 20820 Part 21.c	P/A	Source Test
NMOCP OC	Condition 20820, Part 21.b.iv	Y	Upon activation of Condition 20820, Part 21.a triggers	13.4140.79 tons/calendar year	Condition 20820 Part 21.c	P/I	Initial Source Test
					Condition 20820 Part 21.c	P/A	Source Test

Table VII – A3.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1059, S-1060 (F-105, F-106) – CO FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A3.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1059, S-1060 (F-105, F-106) – CO FURNACES

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>NO_x</u>	<u>BAAQMD 9-10-303.1</u>	<u>Y</u>		<u>Federal interim emissions: CO Boiler emissions: 300 ppm NO_x (dry, 3% O₂), operating day average</u>	<u>Condition 9-10-502.1</u>	<u>C</u>	<u>CEM</u>
<u>NO_x</u>	<u>BAAQMD 9-10-304.1</u>	<u>N</u>		<u>CO Boiler emissions: 150 ppm (dry, 3% O₂), operating day average</u>	<u>BAAQMD 9-10-502.1</u>	<u>C</u>	<u>CEM</u>
<u>NO_x</u>	<u>Condition 20820, Parts 63 and 66</u>	<u>Y</u>		<u>42.8 ppmvd @ 3% O₂, 365-day average: 85.6 ppmvd @ 3% O₂, 7-day average: 150 ppmvd @ 3% O₂, calendar-day average: 610.6 tons/year; 6.194 lbs/day, 7-day average: 10.344 lbs/day (excluding startup, shutdown, emergency bypass, and bypass)</u>	<u>Condition 20820, Parts 63.a and 69</u>	<u>C</u>	<u>CEM</u>
					<u>Condition 20820, Part 70</u>	<u>P/Initial</u>	<u>Source test</u>
<u>CO</u>	<u>Condition 20820, Parts 63 and 68</u>	<u>Y</u>		<u>35.2 ppmvd @ 3% O₂, 365-day average: 100 ppmvd @ 3% O₂, calendar-day average: 209.5 tons/year; 4.402 lbs/day (excluding startup, shutdown, emergency bypass, and bypass)</u>	<u>Condition 20820, Parts 63.a and 69</u>	<u>C</u>	<u>CEM</u>
					<u>Condition 20820, Part</u>	<u>P/Initial</u>	<u>Source test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A3.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1059, S-1060 (F-105, F-106) – CO FURNACES

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>SO2</u>	<u>Condition</u> <u>20820, Parts</u> <u>63 and 67</u>	<u>Y</u>		<u>21.4 ppmvd @ 3% O2, 365-day average:</u> <u>42.8 ppmvd @ 3% O2, 7-day average:</u> <u>440 ppmvd @ 3% O2, calendar-day average:</u> <u>393.2 tons/year:</u> <u>4,309 lbs/day, 7-day average:</u> <u>22.1 tons/day</u> <u>(excluding startup, shutdown, emergency bypass, and bypass)</u>	<u>Condition</u> <u>20820, Parts</u> <u>63.a and 69</u>	<u>C</u>	<u>CEM</u>
					<u>Condition</u> <u>20820, Part 70</u>	<u>P/Initial</u>	<u>Source test</u>
<u>PM10</u>	<u>Condition</u> <u>20820, Parts</u> <u>63 and 68</u>	<u>Y</u>		<u>40 lbs/hr:</u> <u>114.8 tons/year</u> <u>(excluding startup, shutdown, emergency bypass, and bypass)</u>	<u>Condition</u> <u>20820, Part 70</u>	<u>P/Initial</u>	<u>Source test</u>
					<u>Condition</u> <u>20820, Parts</u> <u>63.a and 72</u>	<u>P/Q</u>	<u>Source test</u>
<u>NMOCP OC</u>	<u>Condition</u> <u>20820, Parts</u> <u>63 and 68</u>	<u>Y</u>		<u>14.4740.79 tons/year</u> <u>(excluding startup, shutdown, emergency bypass, and bypass)</u>	<u>Condition</u> <u>20820, Part 70</u>	<u>P/Initial</u>	<u>Source test</u>
					<u>Condition</u> <u>20820, Parts</u> <u>63.a and 72</u>	<u>P/Q</u>	<u>Source test</u>
<u>NMOCP OC</u>	<u>Condition</u> <u>20820,</u> <u>Part 2</u>	<u>Y</u>		<u>6.0 ton/year total fugitive NMOCP OC emissions (combined from S-1059, S-1060, S-1061, and S-1062)</u>	<u>Condition</u> <u>20820,</u> <u>Part 1.e</u>	<u>As Required</u>	<u>Method 21</u> <u>Portable</u> <u>Hydrocarbon</u> <u>Detector</u>
<u>NH3</u>	<u>Condition</u> <u>20820, Part</u> <u>63d</u>	<u>Y</u>		<u>10 ppmv, dry @ 3 O2, 3-hour average</u> <u>(excluding startup, shutdown, emergency bypass, and bypass)</u>	<u>Condition</u> <u>20820, Part</u> <u>63.e</u>	<u>P/Initial</u>	<u>Source test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A3.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1059, S-1060 (F-105, F-106) – CO FURNACES

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>SAM (including SO₂, SO₃, SAM, and ammonium sulfates)</u>	<u>Condition 20820, Part 74</u>	<u>Y</u>		<u>7 tons/year</u>	<u>Condition 20820, Part 75 (Submit results within 150 days of startup date)</u>	<u>P/Initial</u>	<u>Source test</u>
<u>Opacity</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Opacity</u>	<u>BAAQMD 6-1-304</u>	<u>N</u>		<u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Opacity</u>	<u>SIP 6-304</u>	<u>Y</u>		<u>Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>Condition 20820, Part 63.b</u>	<u>C</u>	<u>COMS or AMP</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 20820, Part 63.b</u>	<u>C</u>	<u>COMS or AMP</u>
<u>FP</u>	<u>BAAQMD 6-1-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>Condition 20820, Part 63.b</u>	<u>C</u>	<u>COMS or AMP</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A3.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-1059, S-1060 (F-105, F-106) – CO FURNACES

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>FP</u>	<u>SIP</u> <u>6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>Condition</u> <u>20820, Part</u> <u>63.b</u>	<u>C</u>	<u>COMS or</u> <u>AMP</u>
<u>FP⁴</u>	<u>BAAQMD</u> <u>6-1-311</u>	<u>N</u>		<u>4.10 P^{0.67} lb/hr</u> <u>particulate, where P is</u> <u>process weight rate in</u> <u>ton/hr</u>	<u>Condition</u> <u>19466 Part 6</u>	<u>A</u>	<u>Source Test</u>
<u>FP⁴</u>	<u>SIP</u> <u>6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr</u> <u>particulate, where P is</u> <u>process weight rate in</u> <u>ton/hr</u>	<u>Condition</u> <u>19466 Part 6</u>	<u>A</u>	<u>Source Test</u>
<u>Heat Input</u>	<u>Condition</u> <u>20820, Part</u> <u>71</u>	<u>y</u>		<u>4,634,400</u> <u>MMBtu/year (S-1059)</u> <u>2,268,840</u> <u>MMBtu/year (S-1060)</u>	<u>Condition</u> <u>20820, Part 64</u>	<u>C</u>	<u>Fuel Flow</u> <u>CPMS</u>
<u>A-1047</u> <u>Stack</u> <u>Outlet</u> <u>Vapor</u> <u>Flow</u>	<u>Condition</u> <u>20820, Part</u> <u>61</u>	<u>y</u>		<u>360,000 scfm, dry @</u> <u>0% O₂, 365-day</u> <u>average (excluding</u> <u>startup, shutdown,</u> <u>emergency bypass,</u> <u>and bypass)</u>	<u>Condition</u> <u>20820, Part 69</u>	<u>C</u>	<u>Stack flow</u> <u>meter</u>

⁴ Emission limits for particulate matter apply to S-5 FCCU and S-6 Fluid Coker, but are monitored at S-3 and S-4 CO Furnaces

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
<u>CO</u>	<u>40 CFR Part 60.103(a) and BAAQMD Condition # 24239, Part 2</u>	<u>Y</u>		<u>500 ppmvd @ 0% O₂, 1-hour average</u>	<u>40 CFR Part 60.105(a)(2), 40 CFR Part 63.1565(b)(1)(ii), Condition 24239 Part 7 (AMP for CO monitoring approved by EPA January 10, 2007)</u>	<u>N</u>	<u>N/A (Vent emissions to boiler with heat input > 44 MW)</u>
<u>CO</u>	<u>40 CFR Part 63.1565(a)(1)</u>	<u>Y</u>		<u>500 ppmvd @ 0% O₂, 1-hour average</u>	<u>40 CFR Part 63.1565(b)(1)(ii)</u>	<u>N</u>	<u>N/A (Vent emissions to boiler with heat input > 44 MW)</u>
Opacity	<u>BAAQMD Regulation 6-1-301</u>	<u>Y</u>		Ringelmann No. 1 for no more than 3 minutes/hour	<u>BAAQMD Condition # 19466 Part 15, superseded by Condition 24198, Part 15</u>	<u>C</u>	<u>COM on Main Stack or AMP</u>
<u>Opacity</u>	<u>SIP 6-1-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 15, superseded by Condition 24198, Part 15</u>	<u>C</u>	<u>COM on Main Stack or AMP</u>
Opacity	<u>BAAQMD Regulation 6-1-302</u>	<u>Y/N</u>		20% opacity for no more than 3 minutes/hour	<u>BAAQMD Regulation 6-1-501, SIP 6-501, and</u>	<u>C</u>	<u>COM on Main Stack or AMP</u>

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
					BAAQMD Regulation 1-520.5		
Opacity	SIP 6-302	Y		20% opacity for no more than 3 minutes/hour	BAAQMD 6-1-501, SIP 6-501, and BAAQMD 1-520.5	C	COM on Main Stack or AMP
Opacity		Y		Opacity Records and Reports	BAAQMD Regulation 6-1-502 and Regulation 1-522.8	P/M	Reports
Opacity	40 CFR Part 60.102(a)(2) and BAAQMD Condition # 24239, Part 1	Y		30% opacity, except for one 6-minute average opacity in any 1-hr period	40 CFR Part 60.105(a)(1), Condition 24239, Part 7 (AMP for alternate COMS location approved by EPA February 18, 2009)	C	COMS at Main Stack or AMP
Opacity	40 CFR Part 63.1564(a)(1)(i)	Y		30% opacity, except for one 6-minute average opacity in any 1-hr period	40 CFR Part 63.1564(b)(1), Condition 24239, Part 7 (AMP for alternate COMS location approved by EPA February 18, 2009)	C	COMS or AMP

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
PM	40 CFR Part 60.102(a)(1) and BAAQMD Condition # 24239, Part 3	Y		PM emissions less than 1.0 lb/1,000 lb of coke burn-off	BAAQMD Condition # 24239, Part 6, Condition 24239, Part 7 (AMP for Site-Specific Test Plan, approved by EPA January 10, 2007)	P/E	Initial Performance Test
					40 CFR Part 60.105(c)	P/D	Determine and record daily average coke burn-off rate and hours of operation
PM	40 CFR Part 63.1564(a)(1)(i)	Y		PM emissions less than 1.0 lb/1,000 lb of coke burn-off	40 CFR Part 63.1564(b)(2) (per AMP for Site-Specific Test Plan approved by EPA June 22, 2005)	P/E	Initial Performance Test
					40 CFR Part 63.1564(c)(1)	P/D	Determine and record daily average coke burn-off rate and hours of operation
FP	BAAQMD Regulation 6-1-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 6	P/A, superseded by P/Q	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A4 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-5 (R702) – FLUID CATALYTIC CRACKING UNIT, CATALYST REGENERATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					superseded by Condition 20820, Part 72		
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 19466 Part 6, superseded by Condition 20820, Part 72	P/A, superseded by P/Q	Source Test
FP	BAAQMD Regulation 6-1-311	YN		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9 superseded by Condition 20820, Part 72	P/A, superseded by P/Q	Source Test
FP	SIP 6-311	Y		4.10 P^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	Condition 19466 Part 9 superseded by Condition 20820, Part 72	P/A, superseded by P/Q	Source Test
SO ₂	BAAQMD Regulation 9-1-310.1	Y		SO ₂ emission limit for FCCUs and Fluid Cokers (1000 ppmv), Averaged over 1 hour	BAAQMD Regulation 9-1-502; BAAQMD Regulation 1-520.5	C	SO ₂ CEM

Table VII – A5 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-6 (R-902) – FLUID COKER

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR Part 63 Subpart CC 63.643(a)(2)	Y		Reduce HAP by 98% or to 20 ppm @ 3% O ₂ , Averaged over 1 hour	40 CFR Part 63 Subpart CC 63.644(a)(3) (large heaters exempt from monitoring)	N	N/A
Opacity	BAAQMD Regulation 6-1-301	Y/N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 15, superseded by Condition 24198, Part 15	C	COM_or AMP
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 15, superseded by Condition 24198, Part 15</u>	<u>C</u>	<u>COM or AMP</u>
Opacity	BAAQMD Regulation 6-1-302	Y/N		20% opacity for no more than 3 minutes/hour	BAAQMD Regulation 6-1-501 and Regulation 1-520.6	C	COM_or AMP
<u>Opacity</u>	<u>SIP 6-302</u>	<u>Y</u>		<u>20% opacity for no more than 3 minutes/hour</u>	<u>BAAQMD 6-1-501, SIP 6-501, and BAAQMD 1-520.6</u>	<u>C</u>	<u>COM or AMP</u>
Opacity		Y		Opacity Records and Reports	BAAQMD Regulation 6-1-502, SIP 6-502, and BAAQMD Regulation 1-522.8	P/M	Records

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
FP	BAAQMD Regulation 6-1-310	Y N		0.15 grain/dscf	BAAQMD Condition # 19466 Part 6, superseded by Condition 20820, Part 72	P/A	Source Test
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 19466 Part 6, superseded by Condition 20820, Part 72</u>	<u>P/A</u>	<u>Source Test</u>
FP	BAAQMD Regulation 6-1-311	Y N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9, superseded by Condition 20820, Part 72	P/A	Source Test
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in lb/hr</u>	<u>Condition 19466 Part 9, superseded by Condition 20820, Part 72</u>	<u>P/A</u>	<u>Source Test</u>
SO ₂	BAAQMD Regulation 9-1-310.1	Y		SO ₂ emission limits for FCCUs and fluid cokers (1000 ppmv), averaged over 1 hour	BAAQMD Regulation 9-1-502; BAAQMD Regulation	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
					1-520.6		

**Table VII – A6.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		4.64 MM therms/year (S-7); 5.43 MM therms/year (S-20); 6.48 MM therms/year (S-34)	BAAQMD Regulation 9-10-502..2	C	Fuel Flow CPMS Fuel Flowmeter
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 7A	P/SA C (S-7 Only Upon activation of Condition 20820, Part 21.a triggers) P/D	Source Test CEMS (S-7 Only) Alternative Compliance Plan (Emission calculations using emission factors and fuel meter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
							data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Regulation 2-6-503	P/SA	Source Test And Alternative Compliance Plan
NO _x	<u>Condition 20820, Part 21.b.i (For S-7 Only)</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>77.9 ppm (3% O₂), 365-day average; 779.9 tons/calendar year</u>	<u>Condition 20820 Part 21.b.i</u>	<u>C</u>	<u>CEM</u>
O ₂	<u>Condition #21233, part 5</u>	<u>NY</u>		<u>NOx Box ranges for low, mid, and high O₂ at low, mid, and high firing No limit</u>	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2, 4B and 7A	<u>C</u> <u>P/SA</u>	<u>O₂ CPMS</u> <u>CEM</u> <u>Source Test</u>
O ₂	<u>Condition #21233, part 5 (For S-20 and S-34 Only)</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>NOx Box ranges for low, mid, and high O₂ at low, mid, and high firing</u>	<u>BAAQMD 9-10-502.1</u> <u>Condition 21233 Part 2, 4B and 7A</u>	<u>C</u>	<u>O₂ CPMS</u>
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					(superseded by Condition 24198, Part 10) and BAAQMD Condition # 21233 Part 7A		
CO	BAAQMD Condition # 21233 Part 9	NY		Any two tests ≥ 200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 7A	P/SA	Source Test
CO	Condition 20820, Part 21.b.v (For S-7 Only)	Y	Upon activation of Condition 20820, Part 21.a triggers	35.2 ppm (3% O₂), 365-day average; 214.5 tons/calendar year	Condition 20820 Part 21.b.v	C	CEM
SO ₂	Condition 20820, Part 21.b.ii (For S-7 Only)	Y	Upon activation of Condition 20820, Part 21.a triggers	440 ppm (3% O₂), 365-day average; 6,132 tons/calendar year	Condition 20820 Part 21.b.ii	C	CEM
H ₂ S	BAAQMD Condition 24245, Part 4 40 CFR Part 60 Subpart J 60.104(a)(1)	Y		Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency	BAAQMD Condition 24245, Part 6 40 CFR Part 60 Subpart J 60.105(a)(4)	C	H₂S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				malfunctions			
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-1-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
PM10	<u>Condition 20820, Part 21.b.iii</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>40 lb/hr; 115.4 tons/calendar year</u>	<u>Condition 20820 Part 21.c</u>	<u>P/I</u>	<u>Initial Source Test</u>
					<u>Condition 20820 Part 21.c</u>	<u>P/A</u>	<u>Source Test</u>
<u>NMOCP</u> <u>OC</u>	<u>Condition 20820, Part 21.b.iv</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>13.41+0.79 tons/calendar year</u>	<u>Condition 20820 Part 21.c</u>	<u>P/I</u>	<u>Initial Source Test</u>
					<u>Condition 20820 Part 21.c</u>	<u>P/A</u>	<u>Source Test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-24, ~~S-26~~, AND S-35 (F601, ~~F801~~, AND F 2906) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		2.89 MM therms/year (S-24, S-26); 1.23 MM therms/year (S-35);	BAAQMD Regulation 9-10-502.2	C	Fuel Flow CPMS Fuel Flowmeter
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 7A	P/SA (S-24 &26) P/A (S-35) P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Regulation 2-6-503	P/SA (S-24 &26) P/A (S-35)	Source Test And Alternative Compliance Plan
O ₂	Condition #21233, part 5	Y N		NOx Box ranges for low, mid, and high O2 at low, mid, and high firing No limit	BAAQMD Regulation 9-10-502.2+ For S-24 & 26: BAAQMD Condition # 21233 Part 2, 4B and 7A	C P/SA (S-24 &26) P/A (S-35)	O2 CPMSCEM Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-24, ~~S-26~~, AND S-35 (F601, ~~F801~~, AND F 2906) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					For S-35: BAAQMD Condition # 21233-7A		
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10 (superseded by <u>Condition 24198, Part 10</u>) and BAAQMD Condition # 21233 Part 7A	P/SA (S-24 &26) P/A (S-35)	Source Test
CO	BAAQMD Condition # 21233 Part 9 (only applicable to S-24 and S-26 .)	<u>Y</u>		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 7A	P/SA (S-24 &26)	Source Test
<u>H₂S</u>	<u>BAAQMD Condition 24245, Part 4</u> <u>40 CFR Part 60 Subpart J 60.104(a) (1)</u>	<u>Y</u>		<u>Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions</u>	<u>BAAQMD Condition 24245, Part 6</u> <u>40 CFR Part 60 Subpart J 60.105(a)(4)</u>	<u>C</u>	<u>H₂S analyzer on fuel gas</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A6.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-24, S-26, AND S-35 (F601, F801, AND F 2906) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-1-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – A6.3 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-13, S-50 (F702, F901) – PROCESS FURNACES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Regulation 2-6-503	N	None
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>None</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.3 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-13, S-50 (F702, F901) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-1-310.3	Y N		0.15 grain/dscf @ 6% O ₂	BAAQMD Regulation 2-6-503	N	None
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O₂	BAAQMD 2-6-503	N	None
Fuel Flow	BAAQMD Regulation 9-10-112	N		90,000 therms/year each, during any consecutive 12-month period	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter

**Table VII – A6.4 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-26 (F801) – PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		2.89 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel Flow CPMS
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 7A	P/SA P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter

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Table VII – A6.4 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-26 (F801) – PROCESS FURNACE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
				<u>Conditions #19329 and 21233 is considered compliance with this limit)</u>			<u>data)</u>
<u>NO_x</u>	<u>BAAQMD Regulation 9 -10-303</u>	<u>Y</u>		<u>Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO_x /MMBTU, operating day average</u>	<u>BAAQMD 2-6-503</u>	<u>P/SA</u>	<u>Source Test And Alternative Compliance Plan</u>
<u>O₂</u>	<u>Condition #21233, part 5</u>	<u>Y</u>		<u>NO_x Box ranges for low, mid, and high O₂ at low, mid, and high firing</u>	<u>BAAQMD 9-10-502.2</u>	<u>C</u>	<u>CEM</u>
<u>CO</u>	<u>BAAQMD Regulation 9 -10-305</u>	<u>N</u>		<u>400 ppmv CO (dry, 3% O₂), operating day average</u>	<u>BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10) and BAAQMD Condition # 21233 Part 7A</u>	<u>P/SA</u>	<u>Source Test</u>
<u>CO</u>	<u>BAAQMD Condition # 21233 Part 9</u>	<u>Y</u>		<u>Any two tests >200 ppmv (dry, 3% O₂) in a 5-year period, required installation of a CEM</u>	<u>BAAQMD Condition # 21233 Part 7A</u>	<u>P/SA</u>	<u>Source Test</u>
<u>Opacity</u>	<u>BAAQMD Regulation 6-1-301</u>	<u>N</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

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Table VII – A6.4 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-26 (F801) – PROCESS FURNACE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
				<u>minutes/hour</u>			
FP	<u>BAAQMD Regulation 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	<u>BAAQMD Regulation 6-1-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

Table VII – A8.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-16, ~~S-18~~ (ST-2101AG, ~~ST-2101~~) – ACID GAS, ~~AND SOUTH FLARES~~

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Opacity	<u>BAAQMD Regulation 6-1-301</u>	<u>NY</u>		Ringelmann No. 1 for no more than 3 minutes/hour	<u>BAAQMD Condition # 20806 Parts 3, 4, 5 & 6</u>	P/E	Gas Flow Meters along with Visual Inspection and Records
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meters along with Visual Inspection and Records</u>
FP	<u>BAAQMD Regulation</u>	<u>NY</u>		No visible emissions causing particles on	<u>BAAQMD Condition #</u>	P/E	Gas Flow Meters along

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A8.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-16, S-18 (ST-2101AG, ST-2101) – ACID GAS AND SOUTH FLARES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	6- 1 -305			adjacent property	20806 Parts 3, 4, 5 & 6		with Visual Inspection and Records
FP	SIP 6-305	Y		No visible emissions causing particles on adjacent property	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 6-1-310	Y		0.15 grain/dscf	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 12-12-501	N		None	BAAQMD Regulation 12-12-501	C	Water seal pressure and water level CPMS
VOC, HAP		N			BAAQMD Regulation 12-11-501 & 12-11-505	C	Flow Rate
		N			BAAQMD Regulation 12-11-502.2 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-503 & 12-11-505	C	Flame Detector

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Table VII – A8.1 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-16, S-18 (ST-2101AG, ST-2101) – ACID GAS AND SOUTH FLARES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		N			BAAQMD Regulation 12-11-504 & 12-11-505	C	Purge Gas Flow Rate
		N			BAAQMD Regulation 12-11-507	C	1 frame per minute image video recording

Table VII – A8.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-18 (ST-2101) – SOUTH FLARE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Opacity</u>	<u>BAAQMD Regulation 6-1-301</u>	N		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>BAAQMD Condition # 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meters along with Visual Inspection and Records</u>
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meters along with Visual Inspection and Records</u>
<u>FP</u>	<u>BAAQMD Regulation 6-1-305</u>	N		<u>No visible emissions causing particles on adjacent property</u>	<u>BAAQMD Condition # 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meters along with Visual Inspection and Records</u>
<u>FP</u>	<u>SIP</u>	<u>Y</u>		<u>No visible emissions</u>	<u>Condition</u>	<u>P/E</u>	<u>Gas Flow</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A8.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-18 (ST-2101) – SOUTH FLARE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	6-305			causing particles on adjacent property	20806 Parts 3, 4, 5 & 6		Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD Regulation 12-12-501	N		None	BAAQMD Regulation 12-12-501	C	Water seal pressure and water level CPMS
VOC, HAP		N			BAAQMD Regulation 12-11-501 & 12-11-505	C	Flow Rate
		N			BAAQMD Regulation 12-11-502.2 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD Regulation 12-11-504 & 12-11-505	C	Purge Gas Flow Rate
		N			BAAQMD	C	1 frame per

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A8.2 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-18 (ST-2101) – SOUTH FLARE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
					<u>Regulation-12-11-507</u>		<u>minute image video recording</u>

Table VII – A8.32 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-17 (ST-1701) – BUTANE FLARE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Opacity	BAAQMD <u>Regulation 6-1-301</u>	<u>Y</u> N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD <u>Regulation 6-1-305</u>	<u>N</u> Y		No visible emissions causing particles on adjacent property	None	N	N/A
<u>FP</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>No visible emissions causing particles on adjacent property</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD <u>Regulation 6-1-310</u>	<u>N</u> Y		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meter along with Visual Inspection and Records
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meter along with Visual Inspection and Records</u>
FP	BAAQMD Regulation 6-1-305	N		No visible emissions causing particles on adjacent property	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
<u>FP</u>	<u>SIP 6-305</u>	<u>Y</u>		<u>No visible emissions causing particles on adjacent property</u>	<u>Condition 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meters along with Visual Inspection and Records</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	BAAQMD Condition # 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 20806 Parts 3, 4, 5 & 6</u>	<u>P/E</u>	<u>Gas Flow Meters along with Visual Inspection and Records</u>
FP	BAAQMD	N		None	BAAQMD	C	Water seal

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
	Regulation 12-12-501				Regulation 12-12-501		pressure and water level CPMS
VOC, HAP		N			BAAQMD Regulation -12-11-501 & 12-11-505	C	Flow Rate
		N			BAAQMD Regulation 12-11-502.2 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD Regulation 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD Regulation 12-11-504 & 12-11-505	C	Purge Gas Flow Rate
		N			BAAQMD Regulation -12-11-507	C	1 frame per minute image video recording

**Table VII – A10 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-21, S-22 (F301, F351)– PROCESS FURNACES
S-21 or S-22 Removed From Service Upon Startup of
 S-1061 and S-1062**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	Y		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition# 19466	P/SA	Source Test

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
S-21 or S-22 Removed From Service Upon Startup of
 S-1061 and S-1062**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					Part 10 (superseded by Condition 24198, Part 10)		
CO	BAAQMD Condition #21233 Part 9	N		Any two tests ≥ 200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Condition #10574 Part 32 (superseded by Condition 24197, Part 32)	Y		28 ppmv CO (dry, 3% O ₂), 8-hour average	BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
Fuel Flow	BAAQMD Condition #10574 Part 37 (superseded by Condition 24197, Part 37)	Y		106 MM therms/year combined limit for any consecutive 365 day period (Note: To be adjusted upon shutdown of S-21 or S-22 per Condition 20820, Part 76)	BAAQMD Regulation 9-10-502.2; Condition 10574, Part 19 (superseded by Condition 24197, Part 19)	C	Fuel Flow CPMS Flowmeter
H ₂ S	40 CFR Part 60	Y		Fuel gas H ₂ S concentration limited	40 CFR Part 60 Subpart J	C	H ₂ S 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
S-21 or S-22 Removed From Service Upon Startup of
S-1061 and S-1062

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	Subpart J 60.104(a) (1)			to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	60.105(a)(4)		
H ₂ S	BAAQMD Condition #10574 Parts 13 and 17 <u>(supersede d by Condition 24197, Parts 13 and 17)</u>	Y		100 ppmv, averaged over a 24-hr calendar day and 162 ppmv averaged over any 3-hr period	BAAQMD Condition # 10574 Part 15 <u>(superseded by Condition 24197, Part 15)</u>	C	H ₂ S analyzer on fuel gas
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)

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
S-21 or S-22 Removed From Service Upon Startup of
 S-1061 and S-1062**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14 (superseded by <u>Condition 24198, Part 14</u>)	C	CEM and Alternative Compliance Plan
NO _x	BAAQMD Condition #10574 Part 31 (superseded by <u>Condition 24197, Part 31</u>)	Y		60 ppmv (dry, 3% O ₂), averaged over consecutive 24-hour period	BAAQMD Condition # 10574 Part 31 (superseded by <u>Condition 24197, Part 31</u>)	C	CEM
O ₂		N		No limit	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Opacity	BAAQMD Condition #10574	Y		Ringelmann No. 1 or 20% opacity for no more than 3	None	N	N/A

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
S-21 or S-22 Removed From Service Upon Startup of
 S-1061 and S-1062**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	Part 21 <u>(superseded by Condition 24197, Part 21)</u>			minutes/hour			
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Total Reduced Sulfur	BAAQMD Condition #10574 Part 14 <u>(superseded by Condition 24197, Part 14)</u>	Y		51 ppmv of total reduced sulfur, average over any consecutive four quarter period	BAAQMD Condition # 10574 Part 15 <u>(superseded by Condition 24197, Part 15)</u>	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A11 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9 -10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
CO	BAAQMD Condition # 21233 Part 9	NY		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9 -10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
Fuel Flow	BAAQMD Condition # 14318 Part 4	Y		200 MM Btu/hr; 185 MM Btu/calendar day	BAAQMD Regulation 9-10-502.2	C	Fuel Flow CPMS Flowmeter
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1)	Y		Fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
H ₂ S	BAAQMD Condition # 14318	Y		Fuel gas H ₂ S concentration limited to 162 ppm, rolling	BAAQMD Condition # 14318	C	H ₂ S 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
	Part 5			3-hour average	Part 5		
NO _x	BAAQMD Regulation 9 -10-301	Y		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9 -10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14 (superseded by Condition 24198, Part 14)	C	CEM
NO _x	BAAQMD Condition # 14318 Part 2	Y		40 ppm NO _x (dry, 3% O ₂), 8-hour average	BAAQMD Condition #14318 Part 3	C	CEM
O ₂		N		No limit	BAAQMD Condition # 14318 Part 3 BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 Part 2	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A11 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**Table VII – A12 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-25, S-30, S-31, S-32, S-33 (F701, F2901, F2902, F2903, F2904) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		20.15 MM therms/year (S-25); 40.56 MM therm/ year combined limit for S-30, S-31, S-32, S-33	BAAQMD Regulation 9-10-502.2	C	Fuel <u>Flow CPMSTer</u>
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU,	BAAQMD Regulation 9-10-502.1	C P/D	CEM and Alternative Compliance

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
				operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)			Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14 (superseded by Condition 24198, Part 14)	C	CEM And Alternative Compliance Plan
O ₂		N		No limit	BAAQMD 9-10-502.1 ; BAAQMD Condition # 21233 Part 2	C	CEM
CO	BAAQMD Condition # 21233 Part 9	NY		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O ₂). Operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test

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
					(superseded by Condition 24198, Part 10)		
<u>H₂S</u>	BAAQMD Condition 24245, Part 4 40 CFR Part 60 Subpart J 60.104(a)(1)	<u>Y</u>		<u>Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions</u>	BAAQMD Condition 24245, Part 6 40 CFR Part 60 Subpart J 60.105(a)(4)	<u>C</u>	<u>H₂S analyzer on fuel gas</u>
Opacity	BAAQMD Regulation 6-1-301	<u>NY</u>		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	SIP 6-301	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	<u>NY</u>		0.15 grain/dscf	None	N	N/A
<u>FP</u>	SIP 6-310	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	<u>NY</u>		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	SIP 6-310.3	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

VII. Applicable Limits and Compliance Monitoring Requirements

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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-1-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grains/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grains/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**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	SIP Regulation 9-9-301.1	Y		55 ppmv @ 15% O ₂ (dry) for refinery fuel gas, average over any consecutive 3-hour period	BAAQMD Condition # 19466 Part 11 (superseded by <u>Condition 24198, Part 11</u>)	P/SA	Source Test
NO _x	BAAQMD Regulation 9-9-301.1.3	N		55 ppmv @ 15% O ₂ (dry) for refinery fuel gas, average over any	BAAQMD Regulation 9-9-504	P/A	Source Test

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
				consecutive 3-hour period			
NOx	BAAQMD Regulation 9-9-301.2	N	1/1/2010	50 ppmv @ 15% O ₂ (dry) for refinery fuel gas, average over any consecutive 3-hour period	BAAQMD Regulation 9-9-504	P/A	Source Test
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**Table VII – A14.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-37 – WASTE HEAT BOILER (SG-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO _x	BAAQMD Condition # 16386 Part 1	Y		9 ppmv @15% O ₂ (dry), averaged over any consecutive 3-hour period	BAAQMD Condition # 16386 Part 6	C	NOx CEM
Opacity	BAAQMD Regulation	N		Ringelmann No. 1 for no more than 3	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A14.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-37 – WASTE HEAT BOILER (SG-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	6-1-301			minutes/hour			
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O₂	None	N	N/A

**Table VII – A14.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-45 –TURBINE (GT-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO _x	SIP Regulation 9-9-301.3	Y		9 ppmv @15% O ₂ (dry), averaged over any consecutive 3-hour period	SIP Regulation 9-9-501; BAAQMD Condition # 16386 Part 6	C	NO _x CEM
NO _x	BAAQMD Regulation	N		9 ppmv @15% O ₂ (dry),	BAAQMD Regulation	C	NO _x CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A14.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-45 –TURBINE (GT-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	9-9-301.1.3			average over any consecutive 3-hour period	9-9-501; BAAQMD Condition # 16386 Part 6		
NO _x	BAAQMD Regulation 9-9-301.2	N	1/1/2010	9 ppmv @15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD Regulation 9-9-501; BAAQMD Condition # 16386 Part 6	C	NO _x CEM
Opacity	BAAQMD Regulation 6- 1 -301	N Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1</u> <u>for no more than 3</u> <u>minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6- 1 -310	N Y		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

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 Regulation 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
CO	BAAQMD Condition #21233 Part 9	N Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Condition #9296 Part D3	Y		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
Fuel Flow	BAAQMD Condition # 9296 Part D7	Y		218 MM Btu/hour	BAAQMD Regulation 9-10-502.2;	C	Fuel Flow CPMS Flowmeter
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD 9-10-502.2;	C	Fuel Flow CPMS Flowmeter
H ₂ S	40 CFR Part 60 Subpart J	Y		Fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas

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
	60.104(a) (1)			gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions			
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14 (superseded by Condition 24198, Part 14)	C	CEM
NO _x	BAAQMD Condition #9296 Part D2	Y		30 ppmv (dry, 3% O ₂) averaged over consecutive 12-month period	BAAQMD Regulation 9-10-502.1	C	CEM
O ₂		Y		No Limit	BAAQMD Regulation 9-10-502.1	C	CEM

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
					BAAQMD Condition # 21233 Part 2		
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP</u> <u>6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Total Reduced Sulfur	BAAQMD Condition #9296 Part D4	Y		51 ppmv of total reduced sulfur, annualized daily average (calendar year)	BAAQMD Condition # 9296 Part D6	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A16 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-41 (SG2302) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition #21233 Part 9	Y		Any two tests \geq 200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 21233 Part 8	P/SA	Source Test
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel Flow CPMS Flowmeter
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1)	Y		Fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb	BAAQMD Regulation 9-10-502.1	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
				NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)		P/D	Alternative Compliance Plan (Emission calculation using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14 (superseded by Condition 24198, Part 10)	C	CEM
O ₂		N		No limit	BAAQMD 9-10-502.1; BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A16 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-41 (SG2302) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	<u>6-1-310.3</u>						
<u>FP</u>	<u>SIP</u> <u>6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**Table VII – A17 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-42 (F1060) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	BAAQMD <u>Regulation</u> 9-10-112	N		90,000 therms/year during each consecutive 12-month period	BAAQMD 9-10-502.2	C	Fuel Flow <u>CPMSmeter</u>
<u>H₂S</u>	<u>BAAQMD</u> <u>Condition</u> <u>24245,</u> <u>Part 4;</u> <u>40 CFR</u> <u>Part 60</u> <u>Subpart J</u> <u>60.104(a)</u> <u>(1)</u>	<u>Y</u>		<u>Fuel gas H₂S</u> <u>concentration limited</u> <u>to 230 mg/dscm (0.10</u> <u>gr/dscf), rolling 3-hour</u> <u>average, except for</u> <u>gas burned as a result</u> <u>of process upset or gas</u> <u>burned at flares from</u> <u>relief valve leaks or</u> <u>other emergency</u> <u>malfunctions</u>	<u>BAAQMD</u> <u>Condition</u> <u>24245, Part 6;</u> <u>40 CFR Part</u> <u>60 Subpart J</u> <u>60.105(a)(4)</u>	<u>C</u>	<u>H₂S analyzer</u> <u>on fuel gas</u>
Opacity	BAAQMD <u>Regulation</u> 6-1-301	<u>N</u>		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for</u> <u>no more than 3</u> <u>minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD	<u>N</u>		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**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
	Regulation 6-1-310						
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
<u>FP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**Table VII – A18 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-173 (F902)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD Regulation 9-10-502 Condition # 19466 Part 10 <u>(superseded by Condition 24198, Part 10)</u> and BAAQMD Condition # 21233 Part 7A	P/A	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		1.93 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel <u>Flow</u> <u>CPMS</u> <u>Flowme</u> <u>ter</u>
H ₂ S	40 CFR Part	Y		Fuel gas H ₂ S	40 CFR Part	C	H ₂ S analyzer

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
	60 Subpart J 60.104(a)(1)			concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	60 Subpart J 60.105(a)(4)		on fuel gas
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1; BAAQMD Condition # 21233 Part 7A	P/A P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Regulation 2-6-503 BAAQMD Condition # 21233 Part 7A	P/A	Source Test and Alternative Compliance Plan
NO _x	BAAQMD Condition # 254 Part 1	Y		40 ppm (dry, 3% O ₂), average of 3 consecutive 30-minute test runs	BAAQMD Condition # 254 Part 3	P/ S A	Source Test
O ₂		N		No limit	BAAQMD Regulation 9-10-502.1 BAAQMD Condition # 21233 7A	P/A	Source Test
Opacity	BAAQMD	N Y		Ringelmann No. 1 for	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A18 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-173 (F902)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	Regulation 6-1-301			no more than 3 minutes/hour			
Opacity	SIP 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O₂	None	N	N/A

**Table VII – A19 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	BAAQMD Condition # 19466 Part 10 (superseded by Condition 24198, Part 10) and Condition #21233 Part 9	C	CEM
CO	BAAQMD	Y		28 ppmv (dry, 3% O ₂),	BAAQMD	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	Condition # 10574 Part 24 (superseded by Condition 24197, Part 24)			8-hour average (0.02 lb/MMBtu)	Condition # 19466 Part 10 (superseded by Condition 24197, Part 10) and Condition #21233 Part 9		
Fuel Flow	BAAQMD Condition #10574 Part 29 (superseded by Condition 24197, Part 29)	Y		28.908 MM therms/year	BAAQMD Regulation 9-10-502.2; BAAQMD Condition # 10574 Part 19 (superseded by Condition 24197, Part 19)	C	Fuel Flow CPMS Flowmeter
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1)	Y		fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
H ₂ S	BAAQMD Condition # 10574 Part 13 (superseded by Condition 24197, Part 103)	Y		100 ppmv H ₂ S, averaged over a 24-hour calendar day and 162 ppm H ₂ S averaged over 3 hours	BAAQMD Condition # 10574 Part 15 (superseded by Condition 24197, Part 15)	C	H ₂ S analyzer on fuel gas
NO _x	BAAQMD Regulation 9-3-303	Y		125 ppm NO _x for gaseous fuels, average of 3 consecutive 30-	Monitoring subsumed by BAAQMD	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				minute test runs	Regulation 9-10-502 monitoring. See permit shield.		
NO _x	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Conditions #19329 and 21233 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14 (superseded by Condition 24198, Part 14)	C	CEM
NO _x	40 CFR Part 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 Part 60.48b(b)(1)	C	CEM
NO _x	BAAQMD Condition # 10574 Part 23 (superseded)	Y		10 ppmv (dry, 3% O ₂), 3-hour average (0.0118 lb/MMBtu)	BAAQMD Regulation 9-10-502.1 ; BAAQMD Condition #	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	by Condition 24197, Part 23)				10574 Part 27 (superseded by Condition 24197, Part 27)		
O ₂		N		No limit	BAAQMD Regulation 9-10-502.1; BAAQMD Condition # 10574 Part 27 (superseded by Condition 24197, Part 27) BAAQMD Condition # 21233 Part 2	C	CEM
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O₂	None	N	N/A
PM	BAAQMD	Y		Ringelmann No. 1 or	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	Condition # 10574 Part 21			20% opacity for no more than 3 minutes/hour			
Total reduced sulfur	BAAQMD Condition # 10574 Part 14 (superseded by Condition 24197, Part 14)	Y		51 ppmv, averaged over any four consecutive quarters	BAAQMD Condition # 10574 Part 15 (superseded by Condition 24197, Part 15)	C	H ₂ S analyzer on fuel gas

**Table VII – A20 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-237 (SG1032) –STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 16027– Part 13	Y		50 ppmv (dry, 3% O ₂), averaged over 8 hours	BAAQMD Condition # 16027 Part 22	P/A	Source Test
Fuel Flow	BAAQMD Condition # 16027 Part 18	Y		25.0536 MM therms/year	BAAQMD Condition # 16027 Part 9	C	Fuel Flow <u>CPMSmeter</u>
H ₂ S	BAAQMD Condition # 16027 Part 3	Y		100 ppmv H ₂ S, averaged over a 24-hour calendar day and 162 ppm H ₂ S averaged over any 3-	BAAQMD Condition # 16027 Part 5	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A20 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-237 (SG1032) –STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				hour period			
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1)	Y		Fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
NO _x	40 CFR Part 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 Part 60.48b(b)(1)	C	CEM
NO _x	BAAQMD Condition # 16027 Part 12	Y		9 ppmv (dry, 3% O ₂), averaged over 3 consecutive hours	BAAQMD Condition # 16027-16	C	CEM
O ₂		N		No limit	BAAQMD Condition # 16027 Part 16	C	CEM
Opacity	BAAQMD Regulation 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None BAAQMD Condition # 19466 Part 3	NP/M	N/A Visible Inspections
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD Regulation 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD Regulation 6-1-310.3</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

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
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O₂	None	N	N/A
PM	BAAQMD Condition # 16027 Part 10	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	None BAAQMD D Condition # 19466 Part 3	NP/M	N/A Visible Inspections
Total Reduced Sulfur	BAAQMD Condition # 16027 Part 4	Y		51 ppmv, averaged over any consecutive four-quarter period	BAAQMD Condition # 16027 Part 5	C	H ₂ S analyzer on fuel gas

**Table VII – A21 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-240, S-241, S-242 (P-2401C, P-2602, P-26078B) – EMERGENCY STANDBY DIESEL IC
 ENGINES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Hours of Operation	BAAQMD Condition 22851, Part 4	Y		≤ 34 hours/year for reliability-related activities	BAAQMD Condition 22851, Part 3 and 4	C	Totalizing meter for hours of operation and records
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours each per calendar year for reliability testing	BAAQMD Regulation 9-8-530	C	Totalizing meter for hours of operation

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A21 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-240, S-241, S-242 (P-2401C, P-2602, P-26078B) – 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
					<u>BAAQMD 9-8-520.1 & 9-1-530</u>	<u>M</u>	<u>Records</u>
Hours of Operation	BAAQMD <u>Regulation</u> 9-8-330.3	N	1/1/2012	<50 hours each per calendar year for reliability testing	BAAQMD <u>Regulation</u> 9-8-530	C	Totalizing meter for hours of operation
					<u>BAAQMD 9-8-520.1 & 9-1-530</u>	<u>M</u>	<u>Records</u>
<u>Hours of Operation</u>	<u>CCR, Title 17, Section 93115.3(n)</u>	<u>N</u>		<u><= 34 hours/year for reliability-related activities</u>	<u>CCR, Title 17, Section 93115.10(e) (1)</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>
					<u>CCR, Title 17, Section 93115.10(g)</u>	<u>M</u>	<u>Records</u>
<u>Hours of Operation</u>	<u>BAAQMD Condition 2285+24310, Part 1</u>	<u>Y</u>		<u><= 34 hours/year for reliability-related activities</u>	<u>BAAQMD Condition 2285+24310, Part 3</u>	<u>C</u>	<u>Totalizing meter for hours of operation and records</u>
					<u>BAAQMD Condition 2285+24310, Part 4</u>	<u>M</u>	<u>Records</u>
<u>PM Opacity</u>	BAAQMD <u>Regulation</u> 6-1-303.1	<u>Y/N</u>		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
<u>Opacity</u>	<u>SIP Regulation 6-303.1</u>	<u>Y</u>		<u>Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD <u>Regulation</u>	<u>Y/N</u>		0.15 grain/dscf	None	N	N/A

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-26078B) – 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
	6-1-310						
FP	SIP Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – A22.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO _x	SIP Regulation 9-9-301.3	Y		9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD Condition 19177, Part 38	C	CEM
NO _x	BAAQMD Regulation 9-9-301.1.3	N		9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD Regulation 9-9-501	C	CEM
NO _x	BAAQMD Regulation 9-9-301.2	N	1/1/2010	9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD Regulation 9-9-501	C	CEM
NO _x	BAAQMD Regulation 9-9-301.3 (for natural	N	1/1/2010	9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour	BAAQMD Regulation 9-9-501	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	gas and refinery fuel gas firing)			period			
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	Y		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Sulfur	40 CFR Part 60 Subpart GG 60.333(b)	Y		0.8 percent by weight	40 CFR Part 60 Subpart GG 60.334 (i)(3)(i)	D for first 30 consecutive days of each monitoring year	TRS CEM on fuel gas
CO	BAAQMD Condition # 19177 Part 18(b) for firing natural gas exclusively and 19(d)	Y		6 ppmv (dry, 15% O ₂), averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
CO	BAAQMD Condition # 19177 Part 19(c)	Y		< 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177 Part 38	C	CEM
Fuel flow	BAAQMD Condition #	Y		Combined heat rate input of turbine and	BAAQMD Condition #	C	Fuel Flow <u>CPMSMeter</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	19177 Part 14			associated heat recovery steam generator < 810 MM Btu/hr, (any rolling 3-hour average). Heat rate input of gas turbine < 500 MM Btu/hr	19177 Part 37		
Fuel Flow	BAAQMD Condition # 19177 Part 15	Y		Combined heat rate input of turbine and associated heat recovery steam generator <19,400 MM Btu/calendar day.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow CPMSMeter
Fuel Flow	BAAQMD Condition # 19177 Part 16	Y		Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow CPMSMeter
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1)	Y		Fuel gas H ₂ S concentration limited to 230 mg/dscf (0.10 gr/dscf), rolling 3-hour average	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
H ₂ S	BAAQMD Condition # 19177 Part 19(g)	Y		Refinery fuel gas H ₂ S <162 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177 Part 35	C	H ₂ S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NH ₃	BAAQMD Condition # 19177 Part 18(c) for firing natural gas exclusively and 19(e)	Y		10 ppmv (dry, 15% O ₂) averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 21	P/E	Initial source test
NO _x	BAAQMD Condition # 19177 Part 18(a)(1)	Y		2.5 ppmv (dry, 15% O ₂), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177 Part 38	C	CEM
NO _x	BAAQMD Condition # 19177 Parts 19(a) & 19(b)	Y		< 7.29 lb/hour and 2.5 ppmv (dry, 15% O ₂), averaged over any 3-clock hours	BAAQMD Condition # 19177 Part- 38	C	CEM
PM ₁₀	BAAQMD Condition # 19177 Part 19(h)	Y		< 4.65 lb/hour averaged over any consecutive 24-hour period or 1.55 lb/hour averaged over a calendar year with an upward adjustment limit of 4.65 lb/hour based on source test results	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
POC (as CH ₄)	BAAQMD Condition # 19177 Part 18(d) for	Y		< 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	firing natural gas exclusively and Part 19(f)				BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
SO ₂	BAAQMD Condition # 19177 Part 19(g)	Y		< 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM), including SO ₃ and ammonium sulfates	BAAQMD Condition # 19177 Part 20	Y		< 7 tons in any consecutive four quarters	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177 Part 18(e) - SO ₂ & Part 18(f) -PM ₁₀	Y		Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	BAAQMD Condition # 19177 Part 19(g)	Y		Refinery fuel gas TRS < 35 ppm (rolling consecutive 365 day average) and fuel gas TRS <100 ppm (rolling 24-hour average)	BAAQMD Condition # 19177 Part 35	C	H ₂ S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR
 (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 19177 Part 18(b) for firing natural gas exclusively and Part 19(d)	Y		6 ppmv (dry, 15% O ₂), averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
CO	BAAQMD Condition # 19177- Part 19(c)	Y		< 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177 Part 38	C	CEM
Fuel flow	BAAQMD Condition # 19177 Part 14	Y		Combined heat rate input of turbine and associated heat recovery steam generator < 810 MM Btu/hr, (any rolling 3-hour average). Heat rate input of gas turbine < 500 MM Btu/hr	BAAQMD Condition # 19177 Part 37	C	Fuel Flow CPMS Meter
Fuel Flow	BAAQMD Condition # 19177 Part 15	Y		Combined heat rate input of turbine and associated heat recovery steam generator < 19,400 MM Btu/calendar day.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow CPMS Meter
Fuel Flow	BAAQMD Condition #	Y		Combined heat rate input of turbine and	BAAQMD Condition #	C	Fuel Flow CPMS Meter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR
 (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	19177 Part 16			associated heat recovery steam generator < 6,351,000 MM Btu/year.	19177 Part 37		
H ₂ S H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) BAAQMD Condition # 19177 Part 19(g)	Y Y		Fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average Refinery fuel gas H ₂ S <162 ppm (rolling consecutive 3-hour average)	40 CFR Part 60 Subpart J 60.105(a)(4) BAAQMD Condition # 19177 Part 35 BAAQMD Condition # 19177 Part 36	C C P/Q	H ₂ S analyzer on fuel gas H ₂ S analyzer on fuel gas (excluding pilot gas) Report
NH ₃	BAAQMD Condition # 19177 Part 18(c) for firing natural gas exclusively and Part 19(e) on refinery fuel gas	Y		10 ppmv (dry, 15% O ₂) averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 21	P/E	Initial Source Test
NO _x	BAAQMD Regulation 9-3-303	<u>Y</u>		125 ppm NO _x for gaseous fuels, average of 3 consecutive 30-minute test runs	Monitoring subsumed by BAAQMD Condition #19177 Part 38 monitoring.	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR
 (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					See permit shield.		
NO _x	40 CFR Part 60 Subpart Db 60.44b(l)(1)	Y		Natural gas: 0.20 lb/MMBTU	40 CFR Part 60 Subpart Db 60.48b(b)(1) (Note: 60.48(e)(2) and (3) are subsumed. See permit shield)	C	CEM
					40 CFR Part 60 Subpart Db 60.46b(f)(1)	P/E	Initial Performance Test
NO _x	BAAQMD Condition # 19177 Part 18(a)(1)	Y		2.5 ppmv (dry, 15% O ₂), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177 Part 38	C	CEM
NO _x	BAAQMD Condition # 19177 Parts 19(a) & 19(b)	Y		< 7.29 lb/hour and 2.5 ppmv (dry, 15% O ₂), averaged over any 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD	Y		0.15 grain/dscf @	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR
 (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	Regulation 6-1-310.3			6% O ₂			
FP	SIP 6-310.3	<u>Y</u>		<u>0.15 grain/dscf @ 6% O₂</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
PM ₁₀	BAAQMD Condition # 19177 Part 19(h)	Y		< 4.65 lb/hour averaged over any consecutive 24-hour period or 1.55 lb/hour averaged over a calendar year with an upward adjustment limit of 4.65 lb/hour based on source test results	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
POC (as CH ₄)	BAAQMD Condition # 19177 Part 18(d) for firing natural gas exclusively and 19(f) for refinery fuel gas	Y		< 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
SO ₂	BAAQMD Condition # 19177 Part 19(g)	Y		< 10.75 lb/hour (rolling 24-hour average)	CBAAQMD Condition # 19177 Parts 23 and 25	DP/D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM),	BAAQMD Condition # 19177 Part 20	Y		< 7 tons in any consecutive four quarters	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR
 (COGEN PHASE I)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
including SO ₃ and ammonium sulfates					BAAQMD Condition # 19177 Part 40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177 Part 18(e) - SO ₂ & part 18(f) -PM ₁₀	Y		Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	BAAQMD Condition # 19177 Part 19(g)	Y		Refinery fuel gas TRS < 35 ppm (rolling consecutive 365 day average) and fuel gas TRS <100 ppm (rolling 24-hour average)	BAAQMD Condition # 19177 Part 35	C	H ₂ S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition #19177 Part 36	P/Q	Report

**Table VII – A23 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-243 (DG-5101) – EMERGENCY STANDBY DIESEL IC ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Hours of Operation	BAAQMD Condition	Y		≤ 20 hours/year for reliability-related	BAAQMD Condition	C	Totalizing meter for hours

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A23 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-243 (DG-5101) – EMERGENCY STANDBY DIESEL IC ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	22820, Part 4			activities	22820, Part 3 and 4		of operation and records
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours per calendar year for reliability testing	BAAQMD Regulation -9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-1-530	M	Records
Hours of Operation	BAAQMD Regulation 9-8-330.3	N	1/1/2012	<50 hours per calendar year for reliability testing	BAAQMD Regulation 9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-1-530	M	Records
Hours of Operation	CCR, Title 17, Section 93115.6(b)(3)(A)(1)(a)	N		<= 20 hours/year for reliability-related activities	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing meter for hours of operation
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of Operation	BAAQMD Condition 2282024375 , Part 1	Y		<= 20 hours/year for reliability-related activities	BAAQMD Condition 2282024375 , Part 3	C	Totalizing meter for hours of operation
					BAAQMD Condition 2282024375 , Part 4	M	Records
PM Opacity	BAAQMD Regulation 6-1-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
Opacity	SIP Regulation	Y		Ringelmann No. 2 for no more than 3	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A23 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-243 (DG-5101) – EMERGENCY STANDBY DIESEL IC ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	6-303.1			minutes in any hour or equivalent opacity			
FP	BAAQMD Regulation 6-1-310	Y N		0.15 grain/dscf	None	N	N/A
FP	SIP Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – A24 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS**

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
NO_x	BAAQMD Condition 22949, Part 11	Y		17 ppmv (dry, 3% O₂) (0.0200 lb/MMBtu), averaged over any consecutive 3 hours, or 1.14 lbs/hr, averaged over 3 consecutive hours	BAAQMD Condition 22949, Part 14	C	CEM
NO_x	BAAQMD Condition 22949, Part 8.a	Y		5.0 tons/calendar year	BAAQMD Condition 22949, Part 14	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A24 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>CO</u>	<u>BAAQMD Condition 22949, Part 12</u>	<u>Y</u>		<u>50 ppmv (dry, 3% O₂), averaged over 8 hours, or 2.04 lbs/hr, averaged over 8 hours</u>	<u>BAAQMD Condition 22949, Part 14</u>	<u>C</u>	<u>CEM</u>
<u>CO</u>	<u>BAAQMD Condition 22949, Part 8.a</u>	<u>Y</u>		<u>8.92 tons/calendar year</u>	<u>BAAQMD Condition 22949, Part 14</u>	<u>C</u>	<u>CEM</u>
<u>O₂</u>		<u>N</u>		<u>No limit</u>	<u>BAAQMD Condition 22949, Part 14</u>	<u>C</u>	<u>CEM</u>
<u>TRS</u>	<u>BAAQMD Condition 22949, Part 3(a)</u>	<u>Y</u>		<u>155 ppmv total reduced sulfur (TRS), averaged over a calendar day</u>	<u>BAAQMD Condition 22949, Part 5</u>	<u>C</u>	<u>H₂S/TRS analyzer on fuel gas</u>
<u>TRS/ SO₂</u>	<u>BAAQMD Condition 22949, Part 4</u>	<u>Y</u>		<u>45 ppmv total reduced sulfur (TRS), averaged over any rolling consecutive 365-day period (equivalent to 0.00610 lb SO₂/MMBtu fuel gas)</u>	<u>BAAQMD Condition 22949, Part 5</u>	<u>C</u>	<u>H₂S/TRS analyzer on fuel gas</u>
<u>SO₂</u>	<u>BAAQMD Condition 22949, Part 8.a</u>	<u>Y</u>		<u>1.52 tons/calendar year</u>	<u>BAAQMD Condition 22949, Part 5</u>	<u>C</u>	<u>H₂S/TRS analyzer on fuel gas</u>
<u>H₂S</u>	<u>BAAQMD Condition 22949,</u>	<u>Y</u>		<u>Fuel gas H₂S concentration limited to 230 mg/dscm</u>	<u>BAAQMD Condition 22949, Part 5</u>	<u>C</u>	<u>H₂S/TRS analyzer on fuel gas</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A24 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
	<u>Part 3(b)</u>			<u>(0.10 gr/dscf), rolling 3-hour average</u>			
<u>H₂S</u>	<u>40 CFR Part 60 Subpart J 60.104(a) (1)</u>	<u>Y</u>		<u>Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average</u>	<u>40 CFR Part 60 Subpart J 60.105(a)(4)</u>	<u>C</u>	<u>H₂S analyzer on fuel gas</u>
<u>POC</u>	<u>BAAQMD Condition 22949, Part 13</u>	<u>Y</u>		<u>0.0026 lbs/MMBtu or 0.15 lbs/hr</u>	<u>BAAQMD Condition 22949, Part 18</u>	<u>P/5 years</u>	<u>Source Test</u>
<u>POC</u>	<u>BAAQMD Condition 22949, Part 8.a</u>	<u>Y</u>		<u>0.65 tons/yr</u>	<u>BAAQMD Condition 22949, Part 8b</u>	<u>P/A</u>	<u>Calculations with fuel consumption, fuel HV, and emission factor</u>
<u>PM10</u>	<u>BAAQMD Condition 22949, Part 13</u>	<u>Y</u>		<u>0.0050 lbs/MMBTU or 0.29 lbs/hr</u>	<u>BAAQMD Condition 22949, Part 18</u>	<u>P/5 years</u>	<u>Source Test</u>
<u>PM10</u>	<u>BAAQMD Condition 22949, Part 8.a</u>	<u>Y</u>		<u>1.25 tons/yr</u>	<u>BAAQMD Condition 22949, Part 8b</u>	<u>P/A</u>	<u>Calculations</u>
<u>Fuel Flow (for S-</u>	<u>BAAQMD Condition</u>	<u>Y</u>		<u>192,282 MMBTU/yr (any 365 consecutive</u>	<u>BAAQMD Condition</u>	<u>C</u>	<u>Fuel Flow CPMS</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A24 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
247)	22949, Part 16			days) and ` 21.95 MMBTU/hr	22949, Part 9		
Fuel Flow (for S-248)	BAAQMD Condition 22949, Part 16	Y		307.476 MMBTU/yr (any 365 consecutive days) and ` 35.10 MMBTU/hr	BAAQMD Condition 22949, Part 9	C	Fuel Flow CPMS
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-1-310	N		0.15 grains/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grains/dscf	None	N	N/A
FP	BAAQMD Regulation 6-1-310.3	N		0.15 grains/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grains/dscf @ 6% O2	None	N	N/A
Thruput	BAAQMD Condition 22949, Part 19	Y		Operate the ULSD Unit only when diesel product delivered does not exceed 9,125,000 Barrels/calendar year	BAAQMD Condition 22949, Part 22	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A25 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-251 (DG-5301) – EMERGENCY STANDBY DIESEL IC ENGINE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>Fuel Sulfur Content</u>	<u>BAAQMD Regulation 9-1-304</u>	<u>Y</u>		<u>Sulfur content of liquid fuel ≤ 0.5% by weight</u>	<u>None</u>	<u>P/E</u>	<u>Fuel Oil Certification by supplier for each lot</u>
<u>Fuel Sulfur Content</u>	<u>40 CFR Part 60 Subpart III 60.4207(a); 40 CFR Part 80 Subpart I 80.510(a) (1)</u>	<u>Y</u>		<u>Sulfur content of diesel fuel ≤ 500 ppm. maximum</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Fuel Sulfur Content</u>	<u>40 CFR Part 60 Subpart III 60.4207(a); 40 CFR Part 80 Subpart I 80.510(b) (1)</u>	<u>Y</u>	<u>10/1/2010</u>	<u>Sulfur content of diesel fuel ≤ 15 ppm. maximum</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>Hours of Operation</u>	<u>BAAQMD Condition 22850, Part 1</u>	<u>Y</u>		<u>≤ 50 hours/year for reliability-related activities</u>	<u>BAAQMD Condition 22850, Part 3 and 4</u>	<u>C</u>	<u>Totalizing meter for hours of operation and records</u>
<u>Hours of Operation</u>	<u>BAAQMD Regulation 9-8-330.2</u>	<u>N</u>		<u><100 hours per calendar year for reliability testing</u>	<u>BAAQMD Regulation 9-8-530</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>
					<u>BAAQMD 9-8-520.1 & 9-1-530</u>	<u>M</u>	<u>Records</u>
<u>Hours of Operation</u>	<u>BAAQMD Regulation 9-8-330.3</u>	<u>N</u>	<u>1/1/2012</u>	<u><50 hours per calendar year for reliability testing</u>	<u>BAAQMD Regulation 9-8-530</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A25 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-251 (DG-5301) – EMERGENCY STANDBY DIESEL IC ENGINE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
					<u>BAAQMD 9-8-520.1 & 9-1-530</u>	<u>M</u>	<u>Records</u>
<u>Hours of Operation</u>	<u>CCR, Title 17, Section 93115.6(b)(3)(A)(2)(b)</u>	<u>N</u>		<u><= 50 hours/year for reliability-related activities</u>	<u>CCR, Title 17, Section 93115.10(e)(1)</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>
					<u>CCR, Title 17, Section 93115.10(g)</u>	<u>M</u>	<u>Records</u>
<u>Hours of Operation</u>	<u>40 CFR Part 60 Subpart III 60.4211(e)</u>	<u>Y</u>		<u><= 100 hours/year for reliability-related activities</u>	<u>40 CFR Part 60 Subpart III 60.4209(a)</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>
<u>Hours of Operation</u>	<u>BAAQMD Condition 2285024309, Part 1</u>	<u>Y</u>		<u><= 50 hours/year for reliability-related activities</u>	<u>BAAQMD Condition 2285024309, Part 3</u>	<u>C</u>	<u>Totalizing meter for hours of operation and records</u>
					<u>BAAQMD Condition 2285024309, Part 4</u>	<u>M</u>	<u>Records</u>
<u>NMHC-NOx</u>	<u>40 CFR Part 60 Subpart III 60.4202(a)(2); 40 CFR Part 89 Subpart B 89.112(a)</u>	<u>Y</u>		<u>4.0 g/kW-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>CO</u>	<u>40 CFR Part 60 Subpart III 60.4202(a)</u>	<u>Y</u>		<u>3.5 g/kW-hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A25 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-251 (DG-5301) – EMERGENCY STANDBY DIESEL IC ENGINE

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
	(2); 40 CFR Part 89 Subpart B 89.112(a)						
PM	40 CFR Part 60 Subpart III 60.4202(a) (2); 40 CFR Part 89 Subpart B 89.112(a)	Y		0.20 g/kW-hr	None	N	N/A
Opacity	BAAQMD Regulation 6-1-303.1	N		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
Opacity	SIP Regulation 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A26 Combustion
Applicable Limits and Compliance Monitoring Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
NO _x	Condition 20820. Part 11	Y		5 ppmv (dry, 3% O ₂) (0.0059 lb/MMBtu), averaged over any consecutive 3 hours	Condition 20820. Part 16	C	CEM
					Condition 20820. Part 17	P/Initial	Source Test
NO _x	Condition 20820. Part 8	Y		25.3 tons/calendar year	Condition 20820. Parts 8a and 16	C	CEM
CO	Condition 20820. Part 12	Y		10 ppmv (dry, 3% O ₂) (0.0072 lb/MMBtu), averaged over 3 hours	Condition 20820. Part 16	C	CEM
					Condition 20820. Part 17	P/Initial	Source Test
CO	Condition 20820. Part 8	Y		30.8 tons/calendar year	Condition 20820. Parts 8a and 16	C	CEM
O ₂		N		No limit	Condition 20820. Parts 8a and 16	C	CEM
TRS	Condition 20820. Part 3	Y		100 ppmvd, calendar-day average	Condition 20820. Parts 5 and 16	C	H ₂ S/TRS analyzer on fuel gas
TRS	Condition 20820. Part 4	Y		45 ppmv TRS, averaged over any rolling consecutive 365-day period	Condition 20820. Parts 5 and 16	C	H ₂ S/TRS analyzer on fuel gas
SO ₂	Condition 20820. Part 8	Y		28.0 tons/calendar year	Condition 20820. Parts 8a and 16	C	H ₂ S/TRS analyzer on fuel gas
H ₂ S	Condition	Y		Fuel gas H ₂ S	Condition	C	H ₂ S/TRS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A26 Combustion
Applicable Limits and Compliance Monitoring Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
	<u>20820, Part 3</u>			<u>concentration limited to 162 ppmv), rolling 3-hour average</u>	<u>20820, Parts 5 and 16</u>		<u>analyzer on fuel gas</u>
<u>SAM (including SO₂, SO₃, SAM, and ammonium sulfates)</u>	<u>Condition 20820, Part 74</u>	<u>Y</u>		<u>7 tons/year</u>	<u>Condition 20820, Part 75 (Submit results within 150 days of startup date)</u>	<u>P/Initial</u>	<u>Source test</u>
<u>POENM OC</u>	<u>Condition 20820, Part 12</u>	<u>Y</u>		<u>0.0023 lbs/MMBtu, averaged over 3 hours</u>	<u>Condition 20820, Parts 13 and 19</u>	<u>P/A</u>	<u>Source Test</u>
					<u>Condition 20820, Part 17</u>	<u>P/Initial</u>	<u>Source Test</u>
<u>NMOCP OC</u>	<u>Condition 20820, Part 8</u>	<u>Y</u>		<u>9.9 tons/yr</u>	<u>Condition 20820, Parts 8a and 13</u>	<u>P/A</u>	<u>Source Test</u>
<u>NMOCP OC</u>	<u>Condition 20820, Part 2</u>	<u>Y</u>		<u>6.0 ton/year total fugitive NMOCP OC emissions (combined from S-1059, S-1060, S-1061, and S-1062)</u>	<u>Condition 20820, Part 1.e</u>	<u>As Required</u>	<u>Method 21 Portable Hydrocarbon Detector</u>
<u>PM10</u>	<u>Condition 20820, Part 12</u>	<u>Y</u>		<u>0.0025 lbs/MMBtu, averaged over 3 hours</u>	<u>Condition 20820, Parts 13 and 19</u>	<u>P/A</u>	<u>Source Test</u>
					<u>Condition 20820, Part 17</u>	<u>P/Initial</u>	<u>Source Test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A26 Combustion
Applicable Limits and Compliance Monitoring Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
PM10	<u>Condition 20820, Part 8</u>	Y		10.7 tons/yr	<u>Condition 20820, Parts 8a and 13</u>	P/A	Source Test
NH ₃	<u>Condition 20820, Part 14</u>	Y		10 ppmvd @ 3% O ₂ , averaged over 3 hours	<u>Condition 20820, Part 15</u>	P/Initial	Source Test
Heat Input	<u>Condition 20820, Part 18</u>	Y		8,584,800 MMBtu/365-day period and 980 MMBtu/hr	<u>Condition 20820, Part 9</u>	C	Fuel Flow CPMS
Opacity	<u>BAAQMD 6-1-301</u>	N		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	None	N	N/A
Opacity	<u>SIP 6-301</u>	Y		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	None	N	N/A
FP	<u>BAAQMD 6-1-310</u>	N		0.15 grains/dscf	None	N	N/A
FP	<u>SIP 6-310</u>	Y		0.15 grains/dscf	None	N	N/A
FP	<u>BAAQMD 6-1-310.3</u>	N		0.15 grains/dscf @ 6% O ₂	None	N	N/A
FP	<u>SIP 6-310.3</u>	Y		0.15 grains/dscf @ 6% O ₂	None	N	N/A

Table VII – B1 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-8 (TK-1902 A/B) – COKE STORAGE

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3 (superseded by Condition 24198, Part 2)	P/M	Visible Inspection
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 3 (superseded by Condition 24198, Part 2)</u>	<u>P/M</u>	<u>Visible Inspection</u>
FP	BAAQMD Regulation 6-1-310	N Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7 (superseded by Condition 24198, Part7)	P/A	Source Test
<u>FP</u>	<u>SIP 6-1-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 19466 Part 7 (superseded by Condition 24198, Part7)</u>	<u>P/A</u>	<u>Source Test</u>
FP	BAAQMD Regulation 6-1-311	N Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9 (superseded by Condition 20820, Part 72)	P/A	Source Test
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in lb/hr</u>	<u>Condition 19466 Part 9 (superseded by Condition 20820, Part 72)</u>	<u>P/A</u>	<u>Source Test</u>

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 Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3 (superseded by Condition 24198, Part 3)	P/M	Visible Inspection
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 3 (superseded by Condition 24198, Part 3)</u>	<u>P/M</u>	<u>Visible Inspection</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in lb/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Thruput	BAAQMD Condition #9897 Part 1	Y		Annual throughput limit of 292 tons activated carbon	BAAQMD Condition #9897 Part 2	P/M	Record

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
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 639, Part 2</u>	<u>P/A during lime unloading operation</u>	<u>Visible Inspection</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	BAAQMD Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 639, Part 2</u>	<u>P/A during lime unloading operation</u>	<u>Visible Inspection</u>
FP	BAAQMD Regulation 6-1-311	N		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr</u>	<u>Condition 639, Part 2</u>	<u>P/A during lime unloading operation</u>	<u>Visible Inspection</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B4 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-176 (TK-2325) - BRINE SATURATOR TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3 (superseded by Condition 24198, Part 3)	P/E when dry salt is added to the tank	Visible Inspection
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 3 (superseded by Condition 24198, Part 3)</u>	<u>P/E when dry salt is added to the tank</u>	<u>Visible Inspection</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7 (superseded by Condition 24198, Part 7)	P/E when dry salt is added to tank	Source Test
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 19466 Part 7 (superseded by Condition 24198, Part 7)</u>	<u>P/E when dry salt is added to tank</u>	<u>Source Test</u>
FP	BAAQMD Regulation 6-1-311	N		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B5 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-209 (LD-209) – ~~METHANOL~~/ETHANOL RAILCAR UNLOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Methanol / Ethanol Deliveries	BAAQMD Condition #9296 Part B4	Y		2920-6.620 trucks per rolling 12-month period	BAAQMD Condition #9296 Part B9	P/M	Records

**Table VII – B6 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-232 – ESP FINES VACUUM CONVEYING SYSTEM
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N <u>Y</u>		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>BAAQMD</u> <u>Regulation</u> <u>6-1-310</u>	N <u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-311	N <u>Y</u>		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
<u>FP</u>	<u>SIP</u> <u>6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in lb/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Throughput	BAAQMD Condition # 12727	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727	P/M	Record

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
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Part 1				Part 5		

Table VII – B7 Material Handling
Applicable Limits and Compliance Monitoring Requirements
S-233 – ESP FINES STORAGE BIN
To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
per Condition 20820, Part 76

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3 (superseded by Condition 24198, Part 3)	P/M	Visible Inspection
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>Condition 19466 Part 3 (superseded by Condition 24198, Part 3)</u>	<u>P/M</u>	<u>Visible Inspection</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B7 Material Handling
 Applicable Limits and Compliance Monitoring Requirements**

S-233 – ESP FINES STORAGE BIN

**To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces
 per Condition 20820, Part 76**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>FP</u>	<u>SIP 6-311</u>	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Throughput	BAAQMD Condition # 12727 Part 2	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727 Part 5	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B8 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-1027 – PENTANE RAILCAR LOADING/UNLOADING RACK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	BAAQMD Condition # 17835 Part 1	Y		Throughput less than 22,500 barrels per day, quarterly average	BAAQMD Condition # 17835 Part 3	P/Q	Record
Throughput	BAAQMD Condition # 17835 Part 2	Y		Throughput less than 8.2125 million barrels in any consecutive 4-quarter period	BAAQMD Condition # 17835 Part 3	P/Q	Record

**Table VII – B9.1 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-201 (LD-2051) VACUUM TRUCK LOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	BAAQMD Regulation -8-2-301	C	Continuous HC Analyzer

**Table VII – B9.2 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-202 (LD-2069) VACUUM TRUCK LOADING
with Closed Vent System (A-38 Vapor Balance System)
Venting to S-131 with 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	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	Regulation BAAQMD 8-2-301	C	Continuous HC Analyzer
<u>NESHAPS</u> 40 CFR Part 61, Subpart FF – NESHAPS for Benzene Waste Operations							

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B9.2 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-202 (LD-2069) VACUUM TRUCK LOADING
with Closed Vent System (A-38 Vapor Balance System)
Venting to S-131 with 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
FF	<u>LIMITS AND MONITORING FOR CVS (A-38); CARBON CANISTERS (A-37) and THERMAL OXIDIZER (A-57) on S-131</u>						
VOC	40 CFR Part 63.647(a) 61.346(a)(1) (i)(A)	Y		Individual drain system cover and openings leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.346(a)(1) (i)(A)	P/A	Method 21
VOC	40 CFR Part 63.647(a) 61.346(a)(1) (i)(B)	Y		Individual drain system openings maintained in closed and sealed position	40 CFR Part 63.647(a) 61.346(a)(2)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	40 CFR Part 63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement (A-37 Carbon)	40 CFR Part 63.647(a) 61.354(d)	P/D	VOC analyzer (A-37 Carbon)
VOC	40 CFR Part 63.647(a) 61.349(a)(2) (i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement (A-57 Thermal Oxidizer)	40 CFR Part 63.647(a) 61.354(c)(1)	C	Temperature monitoring device (A-57 Thermal Oxidizer)

**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	BAAQMD Regulation	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

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
	<u>6-1-301</u>						
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation <u>6-1-310</u>	<u>NY</u>		0.15 grain/dscf	None	N	N/A
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
VOC	BAAQMD Regulation <u>8-2-301</u>	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A
CO	BAAQMD Permit Condition 23326, Part 1	Y		22 tons/yr	BAAQMD Condition 23326, Part 2	P/A	Calculation with waste gas vent rate and emission factor

**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
<u>Throughput</u>	<u>Condition 20820, Part 44</u>	<u>Y</u>		<u>480 short tons per day, daily maximum</u>	<u>Condition 20820, Part 45</u>	<u>P/D</u>	<u>Records</u>
Opacity	BAAQMD Regulation <u>6-1-301</u>	<u>NY</u>		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP	BAAQMD Regulation	<u>NY</u>		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**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
	<u>6-1-310</u>						
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

**Table VII – C3 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-159 (SG -701/GT-701) – LUBE OIL RESERVOIR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation <u>6-1-301</u>	<u>NY</u>		Ringelmann No. 1 for no more than 3 minutes/hour	None	N <u>(Vented to S-36 Boiler - BAAQMD Condition # 19466 Part 12, superseded by Condition 24198, Part 12)</u>	N/A
<u>Opacity</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u> <u>(Vented to S-36 Boiler - Condition 19466 Part 12, superseded by Condition 24198, Part 12)</u>	<u>N/A</u>
FP	BAAQMD Regulation <u>6-1-310</u>	<u>NY</u>		0.15 grain/dscf	None	N <u>(Vented to</u>	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C3 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-159 (SG -701/GT-701) – LUBE OIL RESERVOIR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
						<u>S-36 Boiler - BAAQMD Condition # 19466 Part 12, superseded by Condition 24198, Part 12)</u>	
FP	<u>SIP 6-310</u>	Y		<u>0.15 grain/dscf</u>	None	N (Vented to <u>S-36 Boiler - Condition 19466 Part 12, superseded by Condition 24198, Part 12)</u>)	N/A
VOC	BAAQMD <u>Regulation 8-2-301</u>	Y		300 ppm and 15 lb/day total carbon, dry basis	None	N (Vented to <u>S-36 Boiler - BAAQMD Condition # 19466 Part 12, superseded by Condition 24198, Part 12)</u>)	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C4.1 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-160 (C-1031) - SEAL OIL SPARGER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	<u>N</u> (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	N/A
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u> (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	<u>N/A</u>
FP	BAAQMD Regulation 6-1-310	N		0.15 grain/dscf	None	<u>N</u> (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C4.1 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-160 (C-1031) - SEAL OIL SPARGER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
						2d)	
FP	SIP 6-310	Y		0.15 grain/dscf	None	N (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	N/A

**Table VII – C4.2 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-167 AND S-168 (C-401, C-2901) - SEAL OIL SPARGERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C4.2 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-167 AND S-168 (C-401, C-2901) - SEAL OIL SPARGERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	6- 1 -301					flare gas stream - BAAQMD Condition # 19466 Part 13, <u>superseded by Condition 24198, Part 13)</u>	
Opacity	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u> <u>(Vented to flare gas stream - Condition 19466 Part 13, superseded by Condition 24198, Part 13)</u>	<u>N/A</u>
FP	BAAQMD Regulation 6- 1 -310	NY		0.15 grain/dscf	None	N (Vented to flare gas stream - BAAQMD Condition # 19466 Part 13, <u>superseded by Condition 24198, Part</u>	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C4.2 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-167 AND S-168 (C-401, C-2901) - SEAL OIL SPARGERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
						13)	
FP	SIP 6-310	Y		0.15 grain/dscf	None	N (Vented to flare gas stream - Condition 19466 Part 13, superseded by Condition 24198, Part 13)	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N (Vented to fuel gas stream - BAAQMD Condition # 19466 Part 13, superseded by Condition 24198, Part 13)	N/A

**Table VII – C5 Cooling Tower
 Applicable Limits and Compliance Monitoring Requirements
 S-29 – COOLING TOWER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD	Y		Ringelmann No. 1 for no	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C5 Cooling Tower
Applicable Limits and Compliance Monitoring Requirements
S-29 – COOLING TOWER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	6- 1 -301			more than 3 minutes/hour			
Opacity	<u>SIP</u> 6-301	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes/hour</u>	<u>None</u>	<u>N</u>	<u>None</u>
FP	BAAQMD 6- 1 -310	<u>N</u> Y		0.15 grain per dscf	None	N	None
<u>FP</u>	<u>SIP</u> 6-310	<u>Y</u>		<u>0.15 grain per dscf</u>	<u>None</u>	<u>N</u>	<u>None</u>
FP	BAAQMD 6- 1 -311	<u>N</u> Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
<u>FP</u>	<u>SIP</u> 6-311	<u>Y</u>		<u>4.10 P^{0.67} lb/hr particulate, where P is process weight rate in ton/hr</u>	<u>None</u>	<u>N</u>	<u>None</u>
Hex Cr	BAAQMD 11-10-302.2	Y		0.15 mg/liter of circulating cooling water	Regulation <u>BA</u> <u>AQMD</u> 11-10-503.2	N	N/A

Table VII – ~~J26~~C6
Applicable Limits and Compliance Monitoring Requirements
MISCELLANEOUS EQUIPMENT: DOCK SUMP
S-239 (TK-1918)
WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A
Throughput	BAAQMD Condition # 18422 Part 1	Y		Total liquid throughput shall not exceed 360,000 gallons during any consecutive 12-month period (Cumulative Increase)	BAAQMD Condition # 18422 Part 3	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D1
 Applicable Limits and Compliance Monitoring Requirements
 S-1004 CATALYTIC REFORMER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition 18794, Part 1a (<u>superseded by Condition 20820, Part 55</u>)	Y		Total throughput of Naphtha shall not exceed 12,739 KB/Year (34.9 KB/D annual average)	BAAQMD Condition 18794, Part 2b (<u>superseded by Condition 20820, Part 56</u>)	P/M	Records
<u>Throughput</u>	<u>Condition 20820, Part 55</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>Total throughput shall not exceed 14.5 MMBBL/Year</u>	<u>Condition 20820, Part 56</u>	<u>P/M</u>	<u>Records</u>
Throughput	BAAQMD Condition 18794, Part 1b (<u>superseded by Condition 20820, Part 55</u>)	Y		Total throughput of Naphtha shall not exceed 39.8 KB/Day (maximum)	BAAQMD Condition 18794, Part 2a (<u>superseded by Condition 20820, Part 56</u>)	P/M	Records
<u>Throughput</u>	<u>Condition 20820, Part 55</u>	<u>Y</u>	<u>Upon activation of Condition 20820, Part 21.a triggers</u>	<u>Total throughput shall not exceed 39.8 KB/Day (maximum)</u>	<u>Condition 20820, Part 56</u>	<u>P/M</u>	<u>Records</u>
HCl	MACT Subpart UUU 63.1567(a)(1)	Y		HCl emissions of 10 ppmv dry at 3%O ₂	MACT Subpart UUU 63.1567(b)(2)	P/E	Performance test
pH	40 CFR Part 63.1567(a)(2)	Y		Daily average pH of water exiting wet scrubber greater than limit	40 CFR Part 63.1567(b)(1)	C	CPMS of pH of water exiting wet

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D1
Applicable Limits and Compliance Monitoring Requirements
S-1004 CATALYTIC REFORMER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				established during performance test			scrubber
L/G Ratio	40 CFR Part 63.1567(a)(2)	Y		Daily average L/G ratio greater than limit established during performance test	40 CFR Part 63.1567(b)(1)	C	CPMS of liquid and vapor rates to wet scrubber (L/G ratio)

Table VII – D2
Applicable Limits and Compliance Monitoring Requirements
S-1006 CRUDE UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit							
Throughput	BAAQMD Condition 815, Part 1 (superseded by Condition 20820, Part 50)			<=135,000 barrels per day(any single day) crude feed	BAAQMD Condition 815, Part 2	P/D	Records
					BAAQMD Condition 815, Part 2	P/M	Report
Throughput	Condition 20820, Part 50	Y	Upon activation of Condition 20820, Part 21.a triggers	180 kBBL/day, maximum and 165 kBBL/day, annual average crude feed	Condition 20820, Part 51	P/D	Records
					Condition 20820, Part 52	P/M	Report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D3
Applicable Limits and Compliance Monitoring Requirements
S-1007 ALKYLATION UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition 10574, Part 51 (superseded by Condition 24197, Part 51)	Y		<=22,800 barrels per day of alkylate throughput	None	N/A	None
POC	BAAQMD Condition 10574, Part 52 (superseded by Condition 24197, Part 52)	Y		<= 0.174 ton/year fugitive POC emissions for Alkylate Production Project (A/N 3782) based on installation of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. (Limit may be adjusted based on the final fugitive component count after the Alkylate Production Project (A/N 3782) is installed)	None	N/A	None
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

Table VII – D4
Applicable Limits and Compliance Monitoring Requirements
S-1010 HYDROGEN PLANT

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
POC	BAAQMD Condition 15512, Part 1	Y		Route POC from deaerator vents associated with S-1010 downstream to S-40 and/or S-41 boilers at all times when S-1010 is in operation	None	N/A	None
<u>POC</u>	<u>BAAQMD Regulation 8-2-301</u>	<u>Y</u>		<u>When routing POC from deaerator vents associated with S-1010 to atmosphere, < 300 ppm and 15 lb/day total carbon, dry basis</u>	<u>BAAQMD Condition 15512, Part 1</u>	<u>P/I</u>	<u>Source Test</u>
						<u>P/Q, then P/A upon BAAQMD approval</u>	<u>Source Test</u>
<u>Throughput</u>	<u>Condition 20820, Part 57</u>	<u>Y</u>		<u>190 MMSCF/day, daily maximum and 69,350 MMSCF/year</u>	<u>Condition 20820, Part 58</u>	<u>P/D</u>	<u>Records</u>

Table VII – D5
Applicable Limits and Compliance Monitoring Requirements
S-1012 DIMERSOL UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector
<u>Throughput</u>	<u>Condition 20820, Part 59</u>			<u>7 kBBL/day, daily maximum and 2,555 MMBBL/year</u>	<u>Condition 20820, Part 60</u>	<u>P/D</u>	<u>Records</u>

Table VII – D6
Applicable Limits and Compliance Monitoring Requirements
S-1014 CAT LIGHT ENDS

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

Table VII – D7
Applicable Limits and Compliance Monitoring Requirements
S-1024 LIGHT CAT NAPHTHA HYDROFINER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition 9296, Part E1	Y		<= 24,000 barrels per day, calendar year average	BAAQMD Condition 9296, Part E2	P/D	Records

Table VII – D8
Applicable Limits and Compliance Monitoring Requirements
S-211 ALKYLATE DEBUTANIZER T-4302(AT THE FORMER MTBE UNIT)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition 10574, Part 51	Y		<=22,800 barrels per day of alkylate throughput	None	N/A	None
POC	BAAQMD Condition	Y		<= 0.174 ton/year fugitive POC emissions for	None	N/A	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D8
Applicable Limits and Compliance Monitoring Requirements
S-211 ALKYLATE DEBUTANIZER T-4302(AT THE FORMER MTBE UNIT)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	10574, Part 52			Alkylate Production Project (A/N 3782) based on installation of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. (Limit may be adjusted based on the final fugitive component count after the Alkylate Production Project (A/N 3782) is installed)			
POC	BAAQMD Condition 18043, Part 1	Y		<= 0.571 ton in any rolling 12 consecutive months total fugitive POC emissions from the MTBE Phaseout Project (combined from S-1007, S-1014, and S-1012)	BAAQMD Regulation 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

Table VII – D9
Applicable Limits and Compliance Monitoring Requirements
ULSD UNIT
S-1036 STRIPPER TOWER (T-5401) AND
S-1051, S-1052 REACTORS (R-5401, R-5402)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Thruput	BAAQMD Condition 22949, Part 19	Y		Operate the ULSD Unit only when diesel product delivered does not exceed 9,125,000 Barrels/calendar year	BAAQMD Condition 22949, Part 22	P/D	Records
Thruput	BAAQMD	Y		Daily average throughput	BAAQMD	P/D	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D9
Applicable Limits and Compliance Monitoring Requirements
ULSD UNIT
S-1036 STRIPPER TOWER (T-5401) AND
S-1051, S-1052 REACTORS (R-5401, R-5402)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	<u>Condition</u> <u>22949, Part</u> <u>20</u> <u>(S-1036</u> <u>Only)</u>			<u>of 25 kbbbl,</u>	<u>Condition</u> <u>22949, Part 22</u>		
<u>Thruput</u>	<u>Condition</u> <u>22949, Part</u> <u>21</u> <u>(S-1051,</u> <u>S-1052 Only)</u>	<u>Y</u>		<u>Daily average throughput</u> <u>of 25 kbbbl,</u>	<u>Condition</u> <u>22949, Part 22</u>	<u>P/D</u>	<u>Record</u>

Table VII – D10
Applicable Limits and Compliance Monitoring Requirements
BUTAMER UNIT
S-1034, S-1035 TOWERS (T-4801, T-4802) AND
S-1049, S-1050 REACTORS (R-4803A, R-4803B)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>Throughput</u>	<u>Condition</u> <u>20820,</u> <u>Part 36</u> <u>(S-1034,</u> <u>S-1035 Only)</u>	<u>Y</u>		<u>100 kBBL/day, daily</u> <u>average</u>	<u>Condition</u> <u>20820, Part 38</u>	<u>P/D</u>	<u>Records</u>
<u>Throughput</u>	<u>Condition</u> <u>20820,</u> <u>Part 39</u> <u>(S-1049,</u> <u>S-1050 Only)</u>	<u>Y</u>		<u>100 kBBL/day, daily</u> <u>average</u>	<u>Condition</u> <u>20820, Part 41</u>	<u>P/D</u>	<u>Records</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D11
Applicable Limits and Compliance Monitoring Requirements
S-1003 Hydrocracker Unit,
Including S-51, S-52 HCU Total Feed Sandfilters (FIL 410A, 410B)

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Throughput	<u>Condition</u> <u>20820,</u> <u>Part 53</u>	<u>Y</u>	<u>Upon startup of FCCU/C KR Scrubber, A-1047</u>	<u>44 kBBL/day, daily maximum and 40 kBBL/day, annual average</u>	<u>Condition</u> <u>20820, Part 54</u>	<u>P/D</u>	<u>Records</u>

Table VII – D12
Applicable Limits and Compliance Monitoring Requirements
S-1062 HYDROGEN UNIT WITH PSA

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
NMOCPOC	<u>Condition</u> <u>20820,</u> <u>Part 2</u>	<u>Y</u>		<u>6.0 ton/year total fugitive NMOCPOC emissions (combined from S-1059, S-1060, S-1061, and S-1062)</u>	<u>Condition</u> <u>20820,</u> <u>Part 1.e</u>	<u>As Required</u>	<u>Method 21 Portable Hydrocarbon Detector</u>
Throughput	<u>Condition</u> <u>20820,</u> <u>Part 57</u>	<u>Y</u>		<u>190 MMSCF/day, daily maximum and 69.350 MMSCF/year</u>	<u>Condition</u> <u>20820, Part 58</u>	<u>P/D</u>	<u>Records</u>

Table VII – E1 Fuel Dispensing
Applicable Limits and Compliance Monitoring Requirements
S-127 – DIESEL DISPENSING

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Vapor Pressure	BAAQMD	<u>Y</u>		True vapor pressure no greater than 0.5 psia.	BAAQMD	<u>P/E upon change</u>	Look up table or

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – E1 Fuel Dispensing
 Applicable Limits and Compliance Monitoring Requirements
 S-127 – DIESEL DISPENSING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1				Condition #20762, Parts 1 & 3	of service	sample analysis; Records

**Table VII – E2 Fuel Dispensing
 Applicable Limits and Compliance Monitoring Requirements
 S-165 – GASOLINE DISPENSING FACILITY G#6764**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD Regulation 8-7-313.1	Y		Fugitives \leq 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-313.2	Y		Spillage \leq 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-313.3	Y		Liquid Retain + Spitting \leq 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	None	Y		None	BAAQMD Regulation 8-7-503	P/M	Records
VOC	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N	

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	Y		98% recovery of gasoline vapors		N	Use of CARB-certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-301.6 8-7-302.5	Y		Leak free and vapor tight fugitive components	BAAQMD Regulation 8-7-301.13	A	Vapor Tightness Test
VOC	BAAQMD Regulation 8-7-302.14	Y		None	BAAQMD Regulation 8-7-302.14	A	Backpressure Test
VOC	BAAQMD Condition #20666 Part 2	Y		Drop Tube/Drain Valve leak rate not to exceed 0.17 CFH @ 2" H ₂ O; minimum 360° rotation with maximum 108 pound-inch torque	BAAQMD Regulation 8-7-503.2 and BAAQMD Condition #20666 Part 2	P/3A	Drop Tube/Drain Valve Leak Test (CARB TP 201.1C or 201.1D) and Torque Test (CARB TP 201.1B)
POC	<u>Cond #24298 Part. 4</u>	<u>Y</u>		<u>Liquid Removal Test per CARB E.O. VR-203, Exhibit 5, Option 1</u>	<u>CARB E.O. VR-203</u>	<u>P/A</u>	<u>Annual Liquid Removal Test</u>
POC	<u>Cond #24298 Part. 4</u>	<u>Y</u>		<u>Vapor Pressure Sensor Verification Test per E.O. VR-203, Exhibit 8</u>	<u>CARB E.O. VR-203</u>	<u>P/A</u>	<u>Annual Vapor Pressure Sensor Verification</u>
POC	<u>Cond #24298 Part. 4</u>	<u>Y</u>		<u>Veeder-Root Vapor Polisher Operability Test. E.O. VR-203, Exhibit 11</u>	<u>CARB E.O. VR-203</u>	<u>P/A</u>	<u>Annual Vapor Pressure Operability Test</u>
POC	<u>Cond #24298 Part. 4</u>	<u>Y</u>		<u>Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203</u>	<u>CARB E.O. VR-203</u>	<u>P/A</u>	<u>Annual Vapor Polisher</u>

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
				<u>Exhibit 12</u>			<u>Emissions Test</u>
<u>POC</u>	<u>Cond #20666 Part 2</u>	<u>Y</u>		<u>Drop Tube Test per CARB TP 201.1C or 201.1D</u>	<u>CARB E.O. 102</u>	<u>P/3A</u>	<u>Triennial drop tube test</u>
<u>POC</u>	<u>Cond #20666 Part 2</u>	<u>Y</u>		<u>Drop Tube Test per CARB TP 201.1C or 201.1D</u>	<u>CARB E.O. 102</u>	<u>P/3A</u>	<u>Triennial drop tube test</u>
Gasoline Throughput	BAAQMD Condition # 22323	N		92,000 gallons gasoline per 12-month period	BAAQMD 8-7-503.1	P/A	Records

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
Leak Test	BAAQMD Condition # 1709 Part-10	Y		<5% leakage rate for vessels loaded more than 2 times/year	BAAQMD Condition # 1709 Part-9	Every 36 months for each vessel loaded more than 2 times/year	Dry-dock pressure test
Leak Test	BAAQMD Condition # 1709 Part-12	Y		10,000 ppm leak test on above-deck equipment for vessels loaded more than 2 times/year	BAAQMD Condition # 1709 Part-12	Every 10 th load for each vessel loaded more than 2 times/year	On-board Method 21 inspection
Loading Pressure	BAAQMD Condition # 1709 Part-8	Y		Vessel loading pressure <80% of lowest relief valve set pressure	BAAQMD Condition # 1709 Part-6	C	Pressure CPMS recorder
VOC	SIP Regulation 8-44-301.1; BAAQMD Condition # 1709 Part-3	Y		POC Emission \leq 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	BAAQMD Condition # 1709 Part-5	C	VOC CPMS Parameter monitor
VOC	SIP Regulation 8-44.301.2; BAAQMD Condition # 1709 Part-3	Y		Controlled \geq 95% weight	BAAQMD Condition # 1709 Part-5	C	VOC CPMS Parameter monitor
VOC	BAAQMD Regulation 8-44-304.1	N		POC emissions < 5.7 grams per cubic meter (2 lb/1000 barrel)	BAAQMD Condition # 1709	C	VOC CPMS Parameter monitor

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
				loaded, or controlled > 95% weight	Part-5		
VOC	BAAQMD Condition # 1709 Part-1	Y		Annual mass limit for Mogas loading (43.4 tons/yr excluding shore-side fugitive emissions)	BAAQMD Condition # 1709 Part-7	P/Q	Report
<u>NOx</u>	<u>Condition 20820, Part 23</u>	<u>Y</u>		<u>136.12 tons/year for ship and barge emissions from import of crude and gas oil and exports of product coke</u>	<u>Condition 20820, Part 26</u>	<u>P/A</u>	<u>Report</u>
<u>NOx</u>	<u>Condition 20820, Part 24</u>	<u>Y</u>		<u>169.07 tons/year contingency total for ship and barge emissions from import of crude and gas oil and exports of product coke</u>	<u>Condition 20820, Part 26</u>	<u>P/A</u>	<u>Report</u>
<u>SOx</u>	<u>Condition 20820, Part 23</u>	<u>Y</u>		<u>49.06 tons/year for ship and barge emissions from import of crude and gas oil and exports of product coke</u>	<u>Condition 20820, Part 26</u>	<u>P/A</u>	<u>Report</u>
<u>SOx</u>	<u>Condition 20820, Part 24</u>	<u>Y</u>		<u>64.82 tons/year contingency total for ship and barge emissions from import of crude and gas oil and exports of product coke</u>	<u>Condition 20820, Part 26</u>	<u>P/A</u>	<u>Report</u>
<u>NMOCP</u> <u>OC</u>	<u>Condition 20820,</u>	<u>Y</u>		<u>10.56 tons/year for ship and barge</u>	<u>Condition 20820,</u>	<u>P/A</u>	<u>Report</u>

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
	Part 23			emissions from import of crude and gas oil and exports of product coke	Part 26		
NMOCP OC	Condition 20820, Part 24	Y		13.66 tons/year contingency total for ship and barge emissions from import of crude and gas oil and exports of product coke	Condition 20820, Part 26	P/A	Report
PM10	Condition 20820, Part 23	Y		7.82 tons/year for ship and barge emissions from import of crude and gas oil and exports of product coke	Condition 20820, Part 26	P/A	Report
PM10	Condition 20820, Part 24	Y		9.88 tons/year contingency total for ship and barge emissions from import of crude and gas oil and exports of product coke	Condition 20820, Part 26	P/A	Report
CO	Condition 20820, Part 23	Y		19.71 tons/year for ship and barge emissions from import of crude and gas oil and exports of product coke	Condition 20820, Part 26	P/A	Report
CO	Condition 20820, Part 24	Y		24.92 tons/year contingency total for ship and barge emissions from import of crude and gas oil	Condition 20820, Part 26	P/A	Report

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
				and exports of product coke			

**Table VII – H1.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-151 (WWT2001) – WASTEWATER RETENTION PONDS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene	40 CFR Part 61.342(c)(2)(ii)	Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	40 CFR Part 61 Subpart FF 61.355(k)(1) 61.356(b)(4)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD Regulation 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD Regulation 8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H1.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-156 (WWT-2000) – WASTEWATER RETENTION PONDS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene	40 CFR Part 61.342(c)(2)(ii)	Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	40 CFR Part 61 Subpart FF 61.355(k)(1) 61.356(b)(4)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD Regulation 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD Regulation -8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

**Table VII – H2.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B, BIOX-2001, TK-2083) –
[BBIOTREATERS](#)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	BAAQMD Regulation -8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113						
NONE	SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113						
		Y		Monitoring of Waste Treatment Unit	40 CFR 61 Subpart FF 61.354(a)(2)	C	Treatment system operating parameters

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 (BIOX-2053A, BIOX-2053B, BIOX-2001, TK-2083) —
BBIOTREATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		Y		Sampling of Wastes to Waste Treatment Unit	40 CFR 61 Subpart FF 61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

**Table VII – H2.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-214, S-215, S-245 – BIOTREATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113						
NONE	SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113						
		Y		Monitoring of Waste Treatment Unit	40 CFR 61 61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	40 CFR 61 61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-161 (SEW-2001) – SEWER PIPELINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-8-312	N	1/1/2006	Controlled WW collection system components: vapor tight	BAAQMD 8-8-402.4 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-402.2	N	10/1/2005	WW collection system components; vapor tight	BAAQMD 8-8-402.2 8-8-504 8-8-603	Initial Inspection	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N	1/1/2006 until 1/1/2007	Uncontrolled WW collection system components; vapor tight	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/Bi-monthly	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N	1/1/2006 until 1/1/2007	Uncontrolled WW collection system components; not vapor tight on regular bi-monthly inspection	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/Reinspect within 30 days of discovery and every 30 days until controlled or returned to bi-monthly inspection schedule	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N	1/1/2007	Uncontrolled WW collection system components; vapor tight	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N	1/1/2007	Uncontrolled WW collection system	BAAQMD 8-8-313.2	P/ Reinspect within 30	Method 21 portable

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-161 (SEW-2001) – SEWER PIPELINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				components; not vapor tight on regular semi-annual inspection	8-8-402.3 8-8-504 8-8-603	days of discovery and every 30 days until controlled or returned to semi-annual inspection schedule	hydrocarbon detector
VOC	BAAQMD 8-8-312 8-8-313.2 8-8-402.1	N	10/1/2005	Wastewater Inspection and Maintenance Plan Records	BAAQMD 8-8-505	P/E Each inspection and repair	Records
Benzene in Waste	40 CFR Part 61.342 (e)(2)(i)	Y		Uncontrolled and Controlled Benzene < 6 Mg/yr	40 CFR Part 61.355(k)(1) 61.356(b)(4)	P/A	Sampling/ records

**Table VII – H4.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-188 (VARIOUS) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD Regulation 8-8-302.6	P/SA	Method 21 portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-188 (VARIOUS) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					8-8-504 8-8-603		detector
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
<u>VOC</u>	<u>40 CFR Part 61.347(a)(1)(i)(A)</u>	<u>Y</u>		<u>No detectable emissions (<500 ppm)</u>	<u>40 CFR Part 61.347(a)(1)(i)(A)</u>	<u>P/A</u>	<u>EPA Method 21</u>
<u>VOC</u>	<u>40 CFR Part 61.347(a)(1)(i)(B)</u>	<u>Y</u>		<u>No visible openings on oil-water separator</u>	<u>40 CFR Part 61.347(b)</u>	<u>P/Q</u>	<u>Visual inspection</u>
<u>VOC</u>	<u>40 CFR Part 61.349(a)(1)(ii)(B)</u>	<u>Y</u>		<u>Bypass valves closed and car-sealed</u>	<u>40 CFR Part 61.354(f)(1)</u>	<u>P/M</u>	<u>Visual inspection</u>
None	40 CFR Part 61, Subpart FF – NESHAPS, Benzene Wastewater Exempt from <u>control device standards and associated monitoring requirements</u> NESHAPS per 61.340(d). Emissions point routed to fuel gas system.						

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>BAAQMD and SIP</u>	<u>Organic Compounds – Wastewater Collection and Separation Systems LIMITS AND MONITORING</u>						

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Regulation 8-8							
VOC (A-57)	BAAQMD Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight. (Thermal Oxidizer)	BAAQMD Condition 11879 Part 6 & 7 # 13319 Part 5 & 6	C	Temperature CPMS Monit or
VOC (A-37)	BAAQMD Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight. (Carbon Canisters)	BAAQMD Condition 11879 Part 8 & 11 # 13319 Part 18	C	VOC CPMS and Flow CPMS analyz er and flow meter
VOC	BAAQMD Regulation 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD Regulation 8-8-302.6 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
NESHAPS FE	40 CFR Part 61, Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING						
VOC	40 CFR Part 63.647(a) 61.347(a)(1) (i)(A)	Y		OWS cover and openings leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.347(a)(1) (i)(A)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 61 63.647(a) 61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR Part 61 63.647(a) 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 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 6+ 63.647(a) 61.349(a) (1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR Part 6+ 63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 6+ 63.647(a) 61.349(f)	Y		No visible openings on CVS and control device	40 CFR Part 6+ 63.647(a) 61.349(f)	P/Q	Visual inspection
VOC (A-37)	40 CFR Part 6+ 63.647(a) 61.349(a) (2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR Part 6+ 63.647(a) 61.354(d)	P/D	VOC CPMS analyzer
VOC (A-57)	40 CFR Part 6+ 63.647(a) 61.349(a) (2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR Part 6+ 63.647(a) 61.354(c)(1)	C	Temperature CPMS monitor
BAAQMD Permit	PERMIT CONDITIONS						
CO (A57)	BAAQMD Condition 11879 Part 4 # 13319 Part 2	Y		50 ppm (3% O ₂ , dry)	BAAQMD Condition- 11879 Part 6 & 7 # 13319 Part 5 & 6	C	Temperature CPMS Monitor

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC Limit	BAAQMD Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over the month	BAAQMD Condition 11879 Part 13 #13319 Part 17	P/M	Records
					(A-37) Condition 11879 Parts 8 & 11	C	VOC CPMS and Flow CPMS
					(A-57) Condition 11879 Parts 6, 7 & 12	C	Temperature CPMS
					(A-57) Condition 11879 Parts 12	P/Initial	Source Test
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319 11879 Part 18, 9 & 11	C	VOC analyzer and flow meter
NOx (A-57)	BAAQMD Condition 11879 Part 3 #13319 Part 1	Y		25 ppm (3% O ₂ , dry)	BAAQMD Condition 11879 Part 6 & 7 #13319 Part 5 & 6	C	Temperature CPMS Monitor or
Outlet Temperature (A-57)	BAAQMD Condition 11879 Part 6 #13319 Part 4	Y		Thermal Oxidizer: 1400 F minimum outlet temperature averaged over 3-consecutive hours	BAAQMD Condition-11879 Part 7 #13319 Part 5	C	Temperature CPMS Monitor measuring device
VOC	BAAQMD Regulation 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD Regulation 8-8-302.6	P/SA	Method 21 portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					8-8-504 8-8-603		detector
VOC	BAAQMD Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight. (Thermal Oxidizer)	BAAQMD Condition # 1331911879 Part 65 & 76	C	Temperature Monitor
VOC	BAAQMD Regulation 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight. (Carbon Canisters)	BAAQMD Condition # 1187913319 Part 188, 9 & 11	C	VOC analyzer and flow meter
VOC (A-57)	BAAQMD Condition 11879 Part 5# 13319 Part 3	Y		VOC destruction efficiency of 98.5 weight%. (Thermal Oxidizer)	BAAQMD Condition 11879 Parts 6 & 7 #13319 Parts 5 & 6	C	Temperature CPMS Monitor or
VOC	Condition 11879 Part 9	Y		Vapors vented to A-37 carbon canisters and/or A-57 thermal oxidizer	Condition 11879 Part 9	C	Flow CPMS
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	40 CFR 61.61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR 61.61.347 (b)	P/Q	Visual Inspection
VOC	40 CFR 61.61.349(a) (1)(ii)(B)	Y		Bypass valves closed and ear-sealed	40 CFR 61.61.354 (f)(1)	P/M	Visual inspection
VOC	40 CFR 61	Y		Enclosed combustion device	40 CFR 61	C	Temperature

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	61.349(a) (2)(i)(A)			>95% reduction	61.354(e)(1)		monitor
VOC	40 CFR 61.349(a) (2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR 61.354(d)	P/D	VOC analyzer
VOC	40 CFR 61.349(f)	Y		No visible openings on CVS and control device	40 CFR 61.349(f)	P/Q	Visual inspection
Waste Water Flow	BAAQMD Condition # 1331911879 Part 29	Y		3000 gpm	BAAQMD Regulation 2-6-409.2.2	C	Wastewater flow CPMSmeter

**Table VII – H5.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-189 (VARIOUS) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70% by weight.	None	N	No monitoring – vented to fuel gas recovery system
VOC	40 CFR	Y		No detectable emissions	40 CFR Part	P/A	EPA

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-189 (VARIOUS) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Part 61.347(a)(1)(i)(A)			(<500 ppm)	61.347(a)(1)(i)(A)		Method 21
VOC	40 CFR Part 61.347(a)(1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR Part 61.347(b)	P/Q	Visual inspection
VOC	40 CFR Part 61.349(a)(1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR Part 61.354(f)(1)	P/M	Visual inspection
None	40 CFR Part 61, Subpart FF – NESHAPS, Benzene Wastewater Exempt from control device standards and associated monitoring requirements NESHAPS per 61.340(d). Emissions point routed to fuel gas system.						

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD and SIP Regulation 8-8	Organic Compounds – Wastewater Collection and Separation Systems LIMITS AND MONITORING						
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices.	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC (A-57)	BAAQMD Regulation 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight. (Thermal Oxidizer)	BAAQMD Condition # 11879 Parts 6 & 7 13319 Parts 5 & 6	C	Temperature CPMS measuring device
VOC (A-37)	BAAQMD Regulation 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight. (Carbon Canisters)	BAAQMD Condition 11879 Parts # 13319 Part 18	C	VOC CPMS and Flow CPMS analyzer and flow meter
NESHAPS	40 CFR Part 61, Subpart FF – NESHAPS for Benzene Waste Operations						
FF	LIMITS AND MONITORING						
VOC	40 CFR Part 63.647(a) 61.347(a)(1) (i)(A)	Y		OWS cover and openings leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.347(a)(1) (i)(A)	P/A	Method 21 portable hydrocarbon detector
VOC	61 63.647(a) 61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR Part 61 63.647(a) 61.347(b)	P/Q	Visual Inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 61 63.647(a) 61.349(a) (1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR Part 61 63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part	Y		Enclosed combustion	40 CFR Part	C	Temperature

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
(A-57)	64 63.647(a) 61.349(a) (2)(i)(A)			device > 95% reduction	64 63.647(a) 61.354(c)(1)		CPMSmonito F
VOC (A-37)	40 CFR Part 64 63.647(a) 61.349(a) (2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR Part 64 63.647(a) 61.354(d)	P/D	VOC CPMSanalyz er
VOC	40 CFR Part 64 63.647(a) 61.349(f)	Y		No visible openings on CVS and control device	40 CFR Part 64 63.647(a) 61.349(f)	P/Q	Visual inspection
BAAQMD Permit	PERMIT CONDITIONS						
CO	BAAQMD Condition # 1334911879 Part 42	Y		50 ppm (3% O ₂ , dry)	BAAQMD Condition # 1334911879 Parts 65 & 76	C	Temperature CPMSmonito F
NMHC Limit	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over the month	BAAQMD Condition 11879 Part 13	P/M	Records
					(A-37) Condition 11879 Parts 8 & 11	C	VOC CPMS
					(A-57) Condition 11879 Parts 6 & 7	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					(A-57) Condition 11879 Part 12	P/Initial	Source Test
NMHC Limit	BAAQMD Condition # 1187913319 Part 1015	Y		Total combined NMHC emissions from WWTP carbon canisters (A-3637 and A-3757) and thermal oxidizer/diversion tanks (A-5736) < 15 lb/day, averaged over one month	BAAQMD Condition # 1331911879 Part 1317	P/M	Records
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 1331911879 Part 8, 9 & 118	€	VOC analyzer and flow meter
NOx (A-57)	BAAQMD Condition # 1331911879 Part 31	Y		25 ppm (3% O ₂ , dry)	BAAQMD Condition # 1331911879 Parts 65 & 76	C	Temperature CPMS Monitoring
Outlet Temperature (A-57)	BAAQMD Condition # 1331911879 Part 64	Y		Thermal Oxidizer: Minimum temperature of 1400 F averaged over 3-consecutive hours	BAAQMD Condition # 1331911879 Part 75	C	Temperature CPMS measuring device
VOC	BAAQMD Regulation 8-8-303	Y		Vapor-tight gauging and sampling devices.	BAAQMD Regulation 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight. (Thermal Oxidizer)	BAAQMD Condition # 1331911879 Parts 65 & 76	€	Temperature measuring device

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-307.2 & SIP 8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight. (Carbon Canisters)	BAAQMD Condition # 1187913319 Part 8, 9, & 118	C	VOC analyzer and flow meter
VOC	BAAQMD Condition # 1187913319 Part 53	Y		VOC destruction efficiency of 98.5 weight% (Thermal Oxidizer)	BAAQMD Condition # 1187913319 Parts 65 & 76	C	Temperature CPMS Monitor
VOC	40 CFR 61.61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR 61.61.347 (b)	P/Q	Visual Inspection
VOC	40 CFR 61.61.349(a) (1)(ii)(B)	Y		Bypass valves closed and ear-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(e)(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
VOC	Condition 11879 Part 9	Y		Vapors vented to A-37 carbon canisters and/or A-57 thermal oxidizer	Condition 11879 Part 9	C	Flow CPMS
Waste water Flow	BAAQMD Condition # 1187913319 Part 29	Y		3000 gpm	BAAQMD 2-6-409.2.2	C	Wastew Water Flow CPMS Meter

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H6 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-192 (TK-2052) – BIOX SLUDGE THICKENER
S-217, S-218 AND S-219 (TK-791NSD, TK-242SD, TK-131SD) – WASTEWATER
 BIOX SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure no greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
NONE	BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004) Exempt per BAAQMD Regulation 8-8-113						
NONE	SIP Regulation 8-8 Organic Compounds—Wastewater (Oil-Water Separators) (8/29/1994) Exempt per SIP Regulation 8-8-113						

**Table VII – H7
 Applicable Limits and Compliance Monitoring Requirements
 S-217, S-218 AND S-219 (TK-791NSD, TK-242SD, TK-131SD) – WASTEWATER
 BIOX SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure no greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
NONE	BAAQMD Regulation 8-8 Organic Compounds—Wastewater Collection and Separation Systems (9/15/2004)						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—H7
Applicable Limits and Compliance Monitoring Requirements
S-217, S-218 AND S-219 (TK-791NSD, TK-242SD, TK-131SD) — WASTEWATER
BIOX SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD 8-5-117 SIP -8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure no greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
Exempt per BAAQMD Regulation 8-8-113							
NONE	SIP Regulation 8-8 Organic Compounds — WASTEWATER (OIL/WATER SEPARATORS) Exempt per SIP Regulation 8-8-113						

Table VII – J37H7
Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)
~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER with Closed Vent System & Two Control Devices – Benzene Wastewater~~
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
<u>BAAQMD Regulation 8-8</u>	<u>Organic Compounds – Wastewater Collection and Separation Systems</u> <u>LIMITS AND MONITORING FOR CVS & CONTROL DEVICES</u>						
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J37H7
Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)

~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER with Closed Vent System & Two Control Devices – Benzene Wastewater~~
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	<u>BAAQMD 8-8-304 & SIP 8-8-304</u>	Y		<u>Combined collection/destruction efficiency of 70% by weight</u>	<u>BAAQMD Condition # 11879 Part 7</u>	<u>C</u>	<u>Temperature CPMS</u>
BAAQMD Regulation 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	<u>BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301</u>	Y		True vapor pressure	<u>BAAQMD 8-5-501.1</u>	<u>P/E initially and upon change of service</u>	<u>Look-up table or sample analysis; Records</u>
VOC	<u>BAAQMD 8-5-303.1</u>	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	<u>BAAQMD 8-5-501.4</u>	<u>P/initial</u>	<u>Records</u>
VOC	<u>BAAQMD 8-5-303.2</u>	N		Pressure vacuum valve sealing mechanism must be gas tight: < 500 ppm	<u>BAAQMD 8-5-403 8-5-403.1</u>	<u>P/SA</u>	<u>Method 21 portable hydrocarbon detector</u>
					<u>BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)</u>	<u>P/Q (optional)</u>	<u>Method 21 portable hydrocarbon detector</u>
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	<u>BAAQMD 8-5-502.1</u>	<u>P/A</u>	<u>Source test (Not required if vented to fuel gas)</u>
VOC	<u>SIP 8-5-303.1</u>	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least	<u>SIP 8-5-403</u>	<u>P/SA</u>	<u>Visual inspection</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J37H7
Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)

~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER with Closed Vent System & Two Control Devices – Benzene Wastewater~~
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
				0.5 psig			
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: <100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition # 11879 Parts 5 and 6	C	Temperature monitoring device (A-57 Thermal Oxidizer)
					BAAQMD Condition # 11879 Parts 11, 14, and 16	C	Flow meter and VOC analyzer (A-37 Carbon canisters)
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of <10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J37H7
 Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)**

~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER with Closed
 Vent System & Two Control Devices – Benzene Wastewater
 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
							detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR 63 Subpart CC – <u>MACT</u> 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 Part 61 Subpart FF – NESHAPS for Benzene Waste Operations <u>LIMITS AND MONITORING FOR CVS & CARBON CANISTERS (A-37)</u>						
VOC	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	40 CFR Part 63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR Part 63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	40 CFR Part 63.647(a) 61.354(d)	P/D	VOC CPMS analyze F
BAAQMD	PERMIT CONDITIONS FOR CARBON CANISTERS <u>(A-37)</u>						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J37H7
Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)

~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER with Closed Vent System & Two Control Devices – Benzene Wastewater~~
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
Permit							
NMHC	BAAQMD Condition-# 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	BAAQMD Condition-# 11879, Parts 11 and 16	C	Flow CPMS and VOC CPMS meter and VOC analyzer
NMHC	<u>Condition</u> <u>11879</u> <u>Part 10</u>	Y		<u>Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month</u> <u>Record of NMHC emissions and carbon changeouts</u>	BAAQMD Condition-# 11879 Part 12 13	P/M	Record
VOC	BAAQMD Condition # 11879 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11879 Part 13	P/Q	Method 21
NESHAPS	40 CFR Part 61, Subpart FF – NESHAPS for Benzene Waste Operations						
FF	LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER <u>(A-57)</u>						
VOC	<u>40 CFR Part</u> <u>63.647(a)</u> <u>61.343(a)(1)</u> <u>(i)(B)</u>	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	<u>40 CFR Part</u> <u>63.647(a)</u> <u>61.343(a)(1)</u> <u>(i)(B)</u>	P/A	Method 21 <u>portable</u> <u>hydrocarbon</u> <u>detector</u>
VOC	<u>40 CFR Part</u> <u>63.647(a)</u> <u>61.343(a)(1)</u> <u>(i)(B)</u>	Y		Tank openings maintained in closed and sealed position	<u>40 CFR Part</u> <u>63.647(a)</u> <u>61.343(c)</u>	P/Q	Visual inspection
VOC	<u>40 CFR Part</u> <u>63.647(a)</u> <u>61.349(a)</u> <u>(1)(i)</u>	Y		CVS leak tightness standards (< 500 ppmw)	<u>40 CFR Part</u> <u>63.647(a)</u> <u>61.349(a)(1)(i)</u>	P/A	Method 21 <u>portable</u> <u>hydrocarbon</u> <u>detector</u>
VOC	<u>40 CFR Part</u> <u>63.647(a)</u>	Y		CVS with bypass line car-seal closed	<u>40 CFR Part</u> <u>63.647(a)</u>	P/M	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J37H7
 Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)**

~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER with Closed
 Vent System & Two Control Devices – Benzene Wastewater
 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
	61.349(a) (1)(ii)(B)				61.354(f)(1)		
VOC	<u>40</u> CFR Part 3.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	<u>40</u> CFR Part 63.647(a) 61.349(f)	P)/Q	Visual inspection
VOC	<u>40</u> CFR Part 63.647(a) 61.349(a)(2) (i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	<u>40</u> CFR Part 63.647(a) 61.354(c)(1)	C	Temperature CPMS monitoring device
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZER (<u>A-57</u>)						
NOx	BAAQMD Condition # 11879 Part 13	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 5 & 67	C	Temperature CPMS monitoring device
CO	BAAQMD Condition # 11879 Part 24	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 5 & 67	C	Temperature CPMS monitoring device
VOC	BAAQMD Condition # 11879 Part 35	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11879 Parts 5, 6 & 87	C	Temperature CPMS monitoring device
VOC	BAAQMD Condition # 11879 Part 46	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3-consecutive hours	BAAQMD Condition # s 11879, Parts 5 and 67	C	Temperature CPMS monitoring device
NMHC	BAAQMD Condition # 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	BAAQMD Condition # 11879 Part s 5 and 66 & 7	C	Temperature CPMS monitoring device
NMHC	Condition <u>11879</u>	<u>Y</u>		<u>Total combined NMHC emissions from WWTP</u>	Condition <u>11879</u>	<u>P/initial</u>	<u>Source test</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – ~~J37H7~~
Applicable Limits and Compliance Monitoring Requirements
Primary Sludge Thickener S-150 (TKPST-2051)
WW Sludge Tank S-131 (TK-2069)
Slop Oil Vessel S-200 (D-2056)

~~ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER WITH CLOSED Vent System & Two Control Devices – Benzene Wastewater~~
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
	Part 10			(A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Part 12		
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month Record of NMHC emissions	BAAQMD Condition # 11879 Part 12 13	P/M	Record

Table VII – ~~J39H8~~
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)

~~STORAGE DRUMS SLOP OIL VESSEL~~ ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-8	Organic Compounds – Wastewater Collection and Separation Systems LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)

STORAGE DRUMS SLOP OIL VESSEL ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER 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	BAAQMD 8-8-305.2 & SIP 8-8-305.2	Y		Combined collection/destruction efficiency of 70% by weight	BAAQMD Condition 11879 Part 7	C	Temperature Monitor CPM S
BAAQMD Regulation 8-5	Organic Compounds—STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: <100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition # 11882 Parts 5 and 6	C	Temperature monitoring device (A-57 Thermal Oxidizer)
					BAAQMD Condition # 11882 Parts 11, 14, and 16	C	Flow meter and VOC analyzer (A-37 Carbon canisters)
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look-up table or sample analysis; Records
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR Part 63 Subpart CC –for Petroleum Refineries						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)

STORAGE DRUMS SLOP OIL VESSEL ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER 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
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 Part 61, Subpart FF - NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CARBON CANISTERS (A-37)						
VOC	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	40 CFR Part 63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR Part 63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	40 CFR Part 63.647(a) 61.354(d)	P/D	VOC CPMS analyzer
BAAQMD Permit	PERMIT CONDITIONS FOR CARBON CANISTERS (A-37)						
NMHC	BAAQMD Condition # 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-65 and A-36) < 15 lb/day, averaged over one month	BAAQMD Condition #s 11882, 11879, Parts 11 and 16	C	Flow CPMS and VOC CPMS meter and VOC analyzer
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and	BAAQMD Condition # 11882, 11879	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)

STORAGE DRUMS SLOP OIL VESSEL ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER 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
				<u>diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month Record of NMHC emissions and carbon changeouts</u>	Part 42 13		
VOC	BAAQMD Condition # 11882 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11882 Part 13	P/Q	Method 21
NESHAPS FF	40 CFR Part 61, Subpart FF - NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER (A-57)						
VOC	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	40 CFR Part 63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 63.647(a) 61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR Part 63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 63.647(a) 61.349(a)(2)(i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	40 CFR Part 63.647(a) 61.354(c)(1)	C	Temperature CPMS monitoring device
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZER (A-57)						
VOC	BAAQMD Condition # 11882 11879	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 11882	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J39H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)

~~STORAGE DRUMS SLOP OIL VESSEL ABATED BY A-37 CARBON CANISTERS AND/OR A-57 THERMAL OXIDIZER 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
	Part 43				Part 75 & 6		
VOC	BAAQMD Condition-# 1188211879 Part 24	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition-# 1187911882 Part 75 & 6	C	Temperature CPMS
VOC	BAAQMD Condition-# 11882 11879 Part 35	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition-# 1187911882 Part 75 & 6	C	Temperature CPMS
VOC	BAAQMD Condition-# 11882 11879 Part 46	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3-consecutive hours	BAAQMD Condition-# s 1187911882 , Part 75-5 and 6	C	Temperature CPMS monit oring device
NMHC	BAAQMD Condition-# 1188211879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-65 and A-36) < 15 lb/day, averaged over one month	BAAQMD Condition-# 1187911882 Parts 6 & 7, 5 and 6	C	Temperature CPMS monit oring device
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 12	P/initial	Source test
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month Record of NMHC emissions	BAAQMD Condition-# 1188211879 Part 4213	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H9
Applicable Limits and Compliance Monitoring Requirements
Individual Drain Systems Subject 40 CFR Part 60, Subpart QQQ

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	60.692-2(a)(1)	Y		Active drains: Maintain water seal	60.692-2(a)(2)	P/M	Visual or Physical Inspection
VOC	60.692-2(a)(1)	Y		Inactive drains with water seals: Maintain water seal	60.692-2(a)(3)	P/W	Visual or Physical Inspection
VOC	60.692-2(a)(4)	Y		Inactive drains with cap or plug: Cap or seal properly installed	60.692-2(a)(4)	P/SA	Visual or Physical Inspection
VOC	60.692-2(b)(2)	Y		Junction boxes: Maintain sealed covers	60.692-2(b)(3)	P/SA	Visual Inspection
VOC	60.692-2(c)(1)	Y		Unburied sewer lines: No visible gaps or cracks	60.692-2(c)(2)	P/SA	Visual Inspection

Table VII – I1 Fugitives
Applicable Limits and Compliance Monitoring Requirements
FUGITIVE COMPONENTS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>BAAQMD and SIP Regulation 8, Rule 18</u>							
POC	BAAQMD Regulation 8-18-301	Y		General equipment leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	None	P/E	Method 21 Inspection
POC	BAAQMD Regulation 8-18-300	Y		Valves, Pumps, Compressors, Connectors, PRDs, and General Equipment	BAAQMD Regulation 8-18-401.5	P/E (24 hrs after repair/minimization)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-302.1 8-18-302.2	N		Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.2 or 8-18-404	P/Q (footnote a)	Method 21 Inspection
POC	BAAQMD	N		Inaccessible Valve leak	BAAQMD	P/A	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
	Regulation 8-18-302.1 8-18-302.2			≤ 100 ppm or minimize in 24 hours, repair in 7 days	Regulation 8-18-401.3		Inspection
VOC	BAAQMD 8-18-302.3 8-18-306.2 8-18-306.3 8-18-306.4	N	7/1/04	Inspect non-repairable valves	BAAQMD 8-18-401.9	P/Q	Method 21 inspection
VOC	BAAQMD 8-18-302.3 8-18-306.4	N	7/1/04	Mass emission rate <= 15 lb/day for valve with major leak (>= 10,000 ppm)	BAAQMD 8-18-306.4 8-18-604	P/E within 45 days of leak discovery	Mass Emission Sampling
VOC	BAAQMD 8-18-302.3 8-18-306.4	N	7/1/04	Mass emission rate <= 15 lb/day for valve with major leak (>= 10,000 ppm)	BAAQMD 8-18-401.10 8-18-604	P/A	Mass Emission Sampling
VOCPOC	BAAQMD Regulation 8-18-303.1 8-18-303.2	N		Pump and compressor leak ≤ 500 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.2	P/Q	Method 21 Inspection
VOCPOC	BAAQMD Regulation 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.6	Every 5 years (footnote b)	Method 21 Inspection
VOCPOC	BAAQMD Regulation 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
VOCPOC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulations 8-18-401.2 & 8-18-401.7	P/Q	Method 21 Inspection
VOCPOC	BAAQMD Regulation	Y		Inaccessible PRDs leak < 500 ppm or	BAAQMD Regulation	P/A	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I1 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										
	8-18-305			minimize in 24 hours, repair in 15 days	8-18-401.3												
VOCPÖC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulation 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection										
VOCPÖC	BAAQMD Regulation 8-18-306.1	N		Valve, connector, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	BAAQMD Regulation 8-18-502.4	P/Q	Report										
VOCPÖC	BAAQMD Regulation 8-18-306.2 8-18-306.3 8-18-306.4	N	7/1/04	Maximum percentage awaiting repair <table border="1" data-bbox="711 1045 980 1367"> <thead> <tr> <th>Components</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Valves (including with major leaks) and connectors per 8-18-306.3</td> <td>0.30</td> </tr> <tr> <td>Valves with major leaks per 8-18- 306.4</td> <td>0.025</td> </tr> <tr> <td>Pressure Reliefs</td> <td>1.0</td> </tr> <tr> <td>Pumps and Compressors</td> <td>1.0</td> </tr> </tbody> </table>	Components	%	Valves (including with major leaks) and connectors per 8-18-306.3	0.30	Valves with major leaks per 8-18- 306.4	0.025	Pressure Reliefs	1.0	Pumps and Compressors	1.0	BAAQMD Regulation 8-18-502.4	P/Q	Report
Components	%																
Valves (including with major leaks) and connectors per 8-18-306.3	0.30																
Valves with major leaks per 8-18- 306.4	0.025																
Pressure Reliefs	1.0																
Pumps and Compressors	1.0																
VOCPÖC	BAAQMD Regulation 8-18-307	Y		Equipment liquid leaks minimize in 24 hours, repair in 7 days	None	P/E	Records										
VOCPÖC		Y		Pumps and Compressors Evidence of Leak	BAAQMD Regulation 8-18-403	P/D	Visual Inspection										
VOCPÖC	SIP Regulation 8-18-302	Y		Valve leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.2 or 8-18-404	P/Q (footnote a)	Method 21 Inspection										
VOCPÖC	SIP Regulation 8-18-302	Y		Inaccessible Valve leak ≤ 100 ppm or minimize in 24 hours,	SIP Regulation 8-18-401.3	P/A	Method 21 Inspection										

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
				repair in 7 days			
<u>VOCP</u>	SIP Regulation 8-18-303	Y		Pump and compressor leak ≤ 500 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.2	P/Q	Method 21 Inspection
<u>VOCP</u>	SIP Regulation 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.6	Every 5 years (footnote b)	Method 21 Inspection
<u>VOCP</u>	SIP Regulation 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP Regulation 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
<u>VOCP</u>	SIP Regulation 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	SIP Regulation 8-18-502.4	P/Q	Report
<u>VOCP</u>	SIP Regulation 8-18-306.2	Y		Awaiting repair Valves ≤ 0.5% Pressure Relief ≤ 1% Pumps and Compressors ≤ 1%	SIP Regulation 8-18-502.4	P/Q	Report
<u>OC</u>	AAQMD Regulation 8-28-303.2			Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	AAQMD Regulation 8-28-502.1	P/E	Records
<u>OC</u>	IP Regulation 8-28-303.2			Pressure Relief Devices to Meet Prevention Measures Procedures of SIP 8-28-405.	one-time, completed)		P/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
OC	AAQMD & SIP Regulation 8-28-304.1			Pressure Relief Device with reportable releases in 5-year period.	AAQMD -SIP egulations -28-304.1 & -28-405	/E 90 day after release) /E 120 day after release)	HA MP Report n stall tamper-proof indicators
OC	AAQMD Regulation 8-28-304.1			Pressure Relief Device with reportable releases in 5-year period.	AAQMD egulations -28-304.1 & -28-405	/E 90 day after release)	submit PHA report to BAAQMD
OC	AAQMD Regulation 8-28-304.2			After 2 nd release in 5 years; Vent Pressure Relief Devices to an Abatement Device	AAQMD egulation -28-304.2	/E 1 year after release)	
POC	BAAQMD Regulation 8-28-401	N		Pressure Relief Device Release Event Reporting	BAAQMD Regulation 8-28-401	P/E (1 working day and 30 days after release)	Report
OC	IP Regulation 8-28-401			Pressure Relief Device Release Event Reporting	IP Regulation 8-28-401	/E 1 working day and 30	eport

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
						days after release)	
POC	BAAQMD Regulation 8-28-402.1	N		Pressure-Relief Devices with tell-tale indicators and not equipped with monitoring system. Inspect once per day for indications of release	BAAQMD Regulation 8-28-402.1 BAAQMD Regulation 8-28-502.3	P/D	Visual inspection Records
OC	AAQMD Regulation 8-18-305			Pressure Relief Device with reportable releases ≤ 500 ppm	AAQMD regulations 8-28-402.2 & 8-18-401.8 & IP Regulation 8-28-402	P/E 5 working days after release)	Method 21 Inspection Report
POC	BAAQMD Regulation 8-28-503	N	6/1/2007	Monitor all atmospheric Pressure-Relief Devices using a Monitoring System	BAAQMD Regulation 8-28-503 BAAQMD Regulation 8-28-406 BAAQMD Regulation 8-28-502.4	As specified P/E (one time report submittal) As specified	Monitoring System Monitoring System Demonstration Report Monitoring System Records
BAAQMD Regulation 11-7 (Applies to equipment leaks in benzene service only)							
POC Benzene	BAAQMD Regulation 11-7-213	N		Pumps leak $\leq 10,000$; or 1 st repair attempt 5 day, repaired 15 days	BAAQMD Regulation 11-7-501	P/M	Method 21 Inspection
Benzene POC	BAAQMD Regulation 11-7-213	N		Pump Leak Indicated by Dripping Liquid	BAAQMD Regulation 11-7-401	P/W	Visual Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
Benzene OC	BAAQMD Regulation 11-7-310.4	N		Pumps under “Delay of Repair” repaired within 6 months.	None	P/E	Records
Benzene OC	BAAQMD Regulations 11-7-213 and 11-7-307	N		Valves leak ≤ 10,000; or 1 st repair attempt 5 day, repaired 15 days	BAAQMD Regulation 11-7-501	P/M	Method 21 Inspection
Benzene OC	BAAQMD Regulation 11-7-213	N		Valves leak < 10,000 ppm 2 successive months w/o leaking.	BAAQMD Regulation 11-7-307.1	P/Q (if criteria met)	Method 21 Inspection
Benzene OC	BAAQMD Regulation 11-7-213	N		Valves leak < 10,000 ppm 2 successive quarters w/< 2% leaking	BAAQMD Regulation -8-18-302	P/SA (if criteria met) (note c)	Method 21 Inspection
Benzene OC	BAAQMD Regulation 11-7-213	N		Valves leak < 10,000 ppm 5 successive quarters w/< 2% leaking.	BAAQMD Regulation 11-7-313.3	P/A (if criteria met) (note c)	Method 21 Inspection
Benzene OC	BAAQMD Regulation 11-7-213	N		Pressure Relief Valves (liquid), flanges, connectors; leak ≤ 10,000; or 1 st repair attempt 5 day, repaired 15 days	BAAQMD Regulation 8-18-304	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection
Benzene OC		N		Monitoring and Repair Reporting	BAAQMD Regulation 11-7-403	P/SA	Report
40 CFR Part 60; Subpart VV (Applies to equipment leaks subject to 40 CFR Part 63, Subpart CC or 40 CFR Part 60 Subpart GGG only SOCMI Equipment Leaks of VOC)							
VOC P OC	40 CFR Part 60.482- 2 (b)(1)	Y		LL Pump leak < 10,000 ppm or 1 st repair attempt 5dy, repaired 15 days, or	40 CFR Part 60.482- (a)(1)	P/M	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
				put on delay of repair list			
VOCP	40 CFR Part 60.482-2 (b)(2)	Y		LL Pump leak Indicated by dripping liquid	40 CFR Part 60.482-2 (a)(2)	P/W	Visual Inspection
VOCP	40 CFR Part 60.482-2(e)	Y		Pump designated for “No detectable emissions” pursuant to 60.486(e), < 500 ppm	40 CFR Part 60.482-2(e)(3)	P/A	Method 21 Inspection
VOCP	40 CFR Part 60.482-3(d)	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both	40 CFR Part 60.482-3 (e)(1)	C or P/D	Sensor with audible alarm or checked daily
VOCP	40 CFR Part 60.482-3(i)	Y		Compressor designated for “No detectable emissions” pursuant to 60.486(e), < 500 ppm	40 CFR Part 60.482-3(i)(2)	P/A	Method 21 Inspection
VOCP	40 CFR Part 60.482-4(a)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm	None	P/E	Method 21 Inspection
VOCP	40 CFR Part 60.482-4(b)(1)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm after a pressure release event	40 CFR Part 60.482-4(b)(2)	P/E (5 days)	Method 21 Inspection
VOCP	40 CFR Part 60.482-7(b) 60.482-7(d)(1)	Y		Valve leak < 10,000 ppm or 1 st repair attempt 5 day, repaired 15 days	40 CFR Part 60.482-7(a)	P/M	Method 21 Inspection
VOCP	40 CFR Part 60.482-7(b)	Y		Valve leak < 10,000 ppm; 2 successive months	40 CFR Part 60.482-7(c)(1)	P/Q	Method 21 Inspection
VOCP	40 CFR Part 60.482-7(f)	Y		Valve designated “No detectable emissions” leak < 500 ppm	40 CFR Part 60.482-7 (f)(3)	P/A	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
VOCPOC	40 CFR Part 60.482-7(h)	Y		Valve designated “Difficult to monitor (up to 3% of total valves)” leak < 500 ppm	40 CFR Part 60.482-7(h)(3)	P/A	Method 21 Inspection
VOCPOC	40 CFR Part 60.482-8(b)	Y		Pumps and Valves (heavy liquid), Pressure Relief Devices (liquid), Flanges, Connectors leak < 10,000 ppm	40 CFR Part 60.482.8(a)	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection to confirm leak
VOCPOC	40 CFR Part 60.483-2	Y		Individual valve that measures <10,000 ppm for 2 consecutive quarters may be monitored semiannually, if in a process unit with 2 consecutive quarters <2% valves leaking ≥10,000 ppm. ^c	40 CFR Part 60.483-2(b)(2) (footnote c)	P/SA (if criteria are met)	Method 21 Inspection
VOCPOC	40 CFR Part 60.483-2	Y		Individual valve that measures <10,000 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm. ^c	40 CFR Part 60.483-2(b)(3) (footnote c)	P/A (if criteria are met)	Method 21 Inspection
VOC		Y		SOCMI NSPS Fugitives I/M Program	40 CFR Part 60.487(d) and 60.487(f)	P/SA	Report
40 CFR Part 60; Subpart VVa (Applies to equipment leaks subject to 40 CFR Part 60, Subpart GGGa only)							
VOC	40 CFR Part 60.482-2a (b)(1)	Y		LL Pump leak < 10,000 ppm or 1st repair attempt 5dy, repaired 15 days, or put on delay of repair list	40 CFR Part 60.482-2a (a)(1)	P/M	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
VOC	40 CFR Part 60.482-2a (b)(2)	Y		LL Pump leak Indicated by dripping liquid	40 CFR Part 60.482-2a (a)(2)	P/W	Visual Inspection
VOC	40 CFR Part 60.482-2a(e)	Y		Pump designated for “No detectable emissions” pursuant to 60.486a(e), < 500 ppm	40 CFR Part 60.482-2a (e)(3)	P/A	Method 21 Inspection
VOC	40 CFR Part 60.482-3a(d)	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both	40 CFR Part 60.482-3a (e)(1)	C or P/D	Sensor with audible alarm or checked daily
VOC	40 CFR Part 60.482-3a(i)	Y		Compressor designated for “No detectable emissions” pursuant to 60.486a(e), < 500 ppm	40 CFR Part 60.482-3a (i)(2)	P/A	Method 21 Inspection
VOC	40 CFR Part 60.482-4a(a)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm	None	P/E	Method 21 Inspection
VOC	40 CFR Part 60.482-4a(b)(1)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm after a pressure release event	40 CFR Part 60.482-4a (b)(2)	P/E (5 days)	Method 21 Inspection
VOC	40 CFR Part 60.482-7a(b) 60.482-7a(d)(1)	Y		Valve leak < 10,000 ppm or 1 st repair attempt 5 day, repaired 15 days	40 CFR Part 60.482-7a(a)	P/M	Method 21 Inspection
VOC	40 CFR Part 60.482-7a(b)	Y		Valve leak < 10,000 ppm; 2 successive months	40 CFR Part 60.482-7a (c)(1)	P/Q	Method 21 Inspection
VOC	40 CFR Part 60.482-7a(f)	Y		Valve designated “No detectable emissions” leak < 500 ppm	40 CFR Part 60.482-7a (f)(3)	P/A	Method 21 Inspection
VOC	40 CFR	Y		Valve designated “Difficult	40 CFR Part	P/A	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
	Part 60.482-7a(h)			to monitor (up to 3% of total valves)” leak < 500 ppm	60.482-7a(h)(3)		Inspection
VOC	40 CFR Part 60.482-8a(b)	Y		Pumps and Valves (heavy liquid), Pressure Relief Devices (liquid), Flanges, Connectors leak < 10,000 ppm	40 CFR Part 60.482.8a(a)(1)	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection to confirm leak
VOC	40 CFR Part 60.483-2a	Y		Individual valve that measures <10,000 ppm for 2 consecutive quarters may be monitored semiannually, if in a process unit with 2 consecutive quarters <2% valves leaking ≥10,000 ppm.^c	40 CFR Part 60.483-2a(b)(2) (footnote c)	P/SA (if criteria are met)	Method 21 Inspection
VOC	40 CFR Part 60.483-2a	Y		Individual valve that measures <10,000 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm.^c	40 CFR Part 60.483-2a(b)(3) (footnote c)	P/A (if criteria are met)	Method 21 Inspection
VOC		Y		SOCMI NSPS Fugitives I/M Program	40 CFR Part 60.487a(d) and 60.487a(f)	P/SA	Report
40 CFR Part 60; Subpart GGGa (Equipment Leaks at Petroleum Refineries in Process Units or Compressors constructed, reconstructed, or modified after November 7, 2006 and only to components not also subject to 40 CFR Part 63, Subpart CC)							
VOC	40 CFR Part	Y		Flanges, Connectors in gas/vapor and light liquid	40 CFR Part 60.593a(g)	P/E (5 days after	Method 21 Inspection to

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I1 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
	60.593a(g) 60.482-8a(b)			service leak < 10,000 ppm	60.482.8a(a)	leak noted by visual, audible, or olfactory inspection)	confirm leak
40 CFR Part 61; Subparts J and V (Applies to equipment leaks in benzene service only and only to components not also subject to 40 CFR Part 63, Subpart CC [connectors, surge control vessels, bottoms receivers])							
Benzene	40 CFR Part 61.112(a) 61.242-8(a)			Connectors with AVO (visual, audible, or olfactory) evidence of leak	40 CFR Part 61.112(a) 61.242-8(a)(1)	P/E (within 5 days after AVO evidence detected)	Method 21 inspection to confirm leak
40 CFR Part 61; Subpart FF (Benzene Waste Operations NESHAPS)							
VOCPØE	40 CFR Part 61.343 (a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR Part 61.343 (a)(1)(i)(A)	P/A	Method 21 Inspection
VOCPØE	40 CFR Part 63.345 (a)(1)(i)	Y		Container fittings leak ≤ to 500 ppm	40 CFR Part 63.345 (a)(1)(i)	P/A	Method 21 Inspection
VOCPØE	40 CFR Part 61.347 (a)(1)(i)(A)	Y		O/W Separator fittings leak ≤ 500 ppm	40 CFR Part 61.347 (a)(1)(i)(A)	P/A	Method 21 Inspection
VOCPØE	40 CFR Part 61.349 (a)(1)(i)	Y		Closed-vent systems <500 ppm above background	40 CFR Part 61.349 (a)(1)(i)	P/A	Method 21 Inspection

Table VII – I2
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO REGULATION 8, RULE 28

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I2
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO REGULATION 8, RULE 28

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
<u>VOC</u>	<u>BAAQMD 8-28-303.2</u>	<u>N</u>		<u>Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices</u>	<u>BAAQMD 8-28-502.1</u>	<u>P/E</u>	<u>Records</u>
<u>VOC</u>	<u>SIP 8-28-303.2</u>	<u>Y</u>		<u>Pressure Relief Devices to Meet Prevention Measures Procedures of SIP 8-28-405.</u>	<u>None</u>	<u>N (one-time, completed)</u>	<u>N/A</u>
<u>VOC</u>	<u>BAAQMD 8-28-304.1</u> <u>SIP 8-28-304.1</u>	<u>Y</u>		<u>Pressure Relief Device with reportable releases in 5-year period.</u>	<u>BAAQMD 8-28-304.1</u> <u>8-28-405</u> <u>SIP 8-28-304.1</u> <u>8-28-405</u>	<u>P/E (90 day after release)</u> <u>P/E (120 day after release)</u>	<u>PHA & PMP Report</u> <u>Install tamper-proof indicators</u>
<u>VOC</u>	<u>BAAQMD 8-28-304.1</u>	<u>N</u>		<u>Pressure Relief Device with reportable releases in 5-year period.</u>	<u>BAAQMD 8-28-304.1</u> <u>8-28-405</u>	<u>P/E (90 day after release)</u>	<u>Submit PHA report to BAAQMD</u>
<u>VOC</u>	<u>BAAQMD 8-28-304.2</u>	<u>Y</u>		<u>After 2nd release in 5 years: Vent Pressure Relief Devices to an Abatement Device</u>	<u>BAAQMD 8-28-304.2</u>	<u>P/E (1 year after release)</u>	
<u>VOC</u>	<u>BAAQMD 8-28-401</u>	<u>N</u>		<u>Pressure Relief Device Release Event Reporting</u>	<u>BAAQMD 8-28-401</u>	<u>P/E (1 working day and 30 days after release)</u>	<u>Report</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I2
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO REGULATION 8, RULE 28

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency</u>	<u>Monitoring Type</u>
VOC	SIP 8-28-401	Y		Pressure Relief Device Release Event Reporting	SIP 8-28-401	P/E (1 working day and 30 days after release)	Report
VOC	BAAQMD 8-28-402.1	N		Pressure Relief Devices with tell-tale indicators and not equipped with monitoring system: Inspect once per day for indications of release	BAAQMD 8-28-402.1 BAAQMD 8-28-502.3	P/D	Visual inspection Records
VOC	BAAQMD 8-18-305	Y		Pressure Relief Device with reportable releases < 500 ppm	BAAQMD 8-28-402.2 8-18-401.8 SIP 8-28-402	P/E (5 working days after release)	Method 21 Inspection w/Report
VOC	BAAQMD 8-28-503	N		Monitor all atmospheric Pressure Relief Devices using a Monitoring System	BAAQMD 8-28-503 BAAQMD 8-28-406 BAAQMD 8-28-502.4	As specified P/E (one time report submittal) As specified	Monitoring System Monitoring System Demonstrati on Report Monitoring System Records

Footnotes to Table VII-I

^a Valves are inspected pursuant to BAAQMD-approved Alternative Inspection Schedule that satisfies the requirements of BAAQMD Regulation 8-18-404. Valves that have not been found to be leaking for the five prior quarters are placed on the annual inspection schedule.

^b Connectors are inspected pursuant to a BAAQMD-approved Connector Inspection Program that satisfies the requirements of BAAQMD Regulation 8-18-401.6. Under this program, 20% of all of the refinery's connectors are inspected each year provided the leak rate is < 1.5%. If the leak rate is > 1.5%, all connectors within the unit are

VII. Applicable Limits and Compliance Monitoring Requirements

inspected..

^c 40 CFR Part 60.483-2 (Subpart VV) and BAAQMD Regulation 11-7-313 alternative screening schedules for valves are analogous to the Valero Alternative Inspection Schedule (see footnote "a") with two exceptions: 40 CFR Part 60.483-2 uses a leak definition of 10,000 ppm VOC rather than 100 ppm TOC, and 40 CFR Part 60.483-2 requires that the percentage of valves leaking facility-wide (at 10,000 ppm) must have been less than 2% for the five-quarter time period. For process units covered by refinery MACT, 40 CFR Part 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 and except Dimersol and the Tail Gas, which are not subject to MACT. Finally, any valve subject to Subpart VV or to BAAQMD Regulation 11-7 must *individually* comply with BAAQMD Regulation 8-18-404 (5 quarters with no leaks at 100 ppm) in order to be allowed to be screened less frequently than quarterly. As a practical matter, Subpart VV and BAAQMD Regulation 11-7 are effectively less stringent than the Valero Alternative Inspection Schedule.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J3
Applicable Limits and Compliance Monitoring Requirements
S-86 (TK-1758)
EXTERNAL FLOATING-ROOF TANK, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J3
 Applicable Limits and Compliance Monitoring Requirements
 S-86 (TK-1758)**

EXTERNAL FLOATING-ROOF TANK, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
						at 15 minute intervals	
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
NESHAPS CC	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 63, Subpart G – SOCMH 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-73 (TK-1733), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)
EXTERNAL FLOATING-ROOF TANKS, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J4
Applicable Limits and Compliance Monitoring Requirements
S-63 (TK-1711), S-73 (TK-1733), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)
EXTERNAL FLOATING-ROOF TANKS, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
						measurements at 15 minute intervals	
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
NESHAPS CC	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 63, Subpart G – SOCMHON 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 – J5
Applicable Limits and Compliance Monitoring Requirements
S-73 (TK-1733), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)
EXTERNAL FLOATING-ROOF TANKS

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of <10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of <10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents HBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J5
Applicable Limits and Compliance Monitoring Requirements
S-73 (TK-1733), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-
79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
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 – J6
Applicable Limits and Compliance Monitoring Requirements
S-83 (TK-1755), S-84 (TK-1756), S-92 (TK-1771)
EXTERNAL FLOATING-ROOF TANKS, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J6
Applicable Limits and Compliance Monitoring Requirements
S-83 (TK-1755), S-84 (TK-1756), S-92 (TK-1771)
EXTERNAL FLOATING-ROOF TANKS, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
NESHAPS CC	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries						
	40 CFR Part 63, Subpart G – SOCFI HON						
	LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J7
Applicable Limits and Compliance Monitoring Requirements
S-97 (TK-1776) – EXTERNAL FLOATING-ROOF TANK, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after	SIP 8-5-503	P/each time emptied &	Portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J7
Applicable Limits and Compliance Monitoring Requirements
S-97 (TK-1776) – EXTERNAL FLOATING-ROOF TANK, MACT GROUP 1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				degassing		degassed	detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
NESHAPS CC	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 63, Subpart G – SOCMH 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 – 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 Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J8
Applicable Limits and Compliance Monitoring Requirements
S-163 (TK-1732) – NSPS SUBPART K EXTERNAL FLOATING ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
NESHAPS CC	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 63, Subpart G – SOCMH HON						

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
LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS							
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

Table VII – J9
Applicable Limits and Compliance Monitoring Requirements
S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708) –
NSPS SUBPART Kb EXTERNAL FLOATING ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS						
LIMITS AND MONITORING FOR FLOATING-ROOF TANKS							
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD	Y		Primary rim-seal standards;	BAAQMD	P/SA and	Seal

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J9
Applicable Limits and Compliance Monitoring Requirements
S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708) –
NSPS SUBPART Kb 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
	8-5-321 SIP 8-5-321			includes gap criteria	8-5-401.1 SIP 8-5-401.1	every time a seal is replaced	inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	records
NESHAPS CC and NSPS Kb	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 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	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, S-1047, S-1048 (TK-1740, TK-1707, TK-1708) –
NSPS SUBPART KB 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
	(b)(4)(i)						
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						
POC (S-207)	BAAQMD Condition # 10797 Part 1	Y		The total POC emissions shall not exceed 4.62 tons in any rolling 365 consecutive day period.	None	N	N/A
Material Stored (S-207)	BAAQMD Condition # 10797 Part 4	Y		The S-207 External roof storage tank shall store mogas/components only.	BAAQMD Condition # 10797 Part 7	P/D	Record
Throughput (S-207)	BAAQMD Condition # 10797 Part 6	Y		The total throughput of mogas/components at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period.	BAAQMD Condition # 10797 Part 7	P/D	Record
Material Stored (S-1047 and S-1048)	BAAQMD Condition 20820, Part 31	Y		Store crude oil only	BAAQMD Condition 20820, Part 33	P/D	Record
Throughput (S-1047 and S-1048)	BAAQMD Condition 20820, Part 32	Y		Total throughput of crude oil shall not exceed 171.5 kBBL/day (annual daily average) or 62.6 MMBBL/year for S-57 through S-62 (Facility B5574), S-1047, and S-1048	BAAQMD Condition 20820, Part 33	P/D	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J9
Applicable Limits and Compliance Monitoring Requirements
S-207, S-1047, S-1048 (TK-1740, TK-1707, TK-1708) –
NSPS SUBPART Kb 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
				<u>combined</u>			

NOTE: Table for Source S-112 relocated and renumbered as Table IV-J35 to place it with other Benzene Wastewater tanks.

Table VII – J11
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)
INTERNAL FLOATING ROOF TANK, WITH SECONDARY SEAL AND SOLID GUIDEPOLES;
MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3 SIP 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap	BAAQMD 8-5-402.1	P/10 year intervals and	Seal inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J11
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)

INTERNAL FLOATING ROOF TANK, ~~WITH SECONDARY SEAL AND SOLID GUIDEPOLES;~~
MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 8-5-322			criteria		every time a seal is replaced	
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1 SIP 8-5-305	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-321.1 8-5-322.1 SIP 8-5-320 8-5-321	N		Floating roof fittings, visual inspection of outer most seal	BAAQMD 8-5-402.2 8-5-402.3 8-5-411.3 (optional)	P/Q (optional)	Fitting inspection; Visual inspection
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
NONE	40 CFR Part 63, Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J12
Applicable Limits and Compliance Monitoring Requirements
S-88 (TK-1760), S-87 (TK-1759), S-90 (TK-1762), S-91 (TK-1763)
INTERNAL FLOATING ROOF TANKS, ~~WITH SECONDARY SEALS AND SLOTTED~~
~~GUIDEPOLES~~; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3 SIP 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1 SIP 8-5-305	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-321.1 8-5-322.1 SIP 8-5-320 8-5-321	N		Floating roof fittings, visual inspection of outer most seal	BAAQMD 8-5-402.2 8-5-402.3 8-5-411.3 (optional)	P/Q (optional)	Fitting inspection; Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J12
Applicable Limits and Compliance Monitoring Requirements
S-88 (TK-1760), S-87 (TK-1759), S-90 (TK-1762), S-91 (TK-1763)
INTERNAL FLOATING ROOF TANKS, WITH SECONDARY SEALS AND SLOTTED
GUIDEPOLES; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
None	40 CFR Part 63, Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.						

Table VII – J13
Applicable Limits and Compliance Monitoring Requirements
S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records

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
	8-5-301						
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3 SIP 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1 SIP 8-5-305	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-321.1 8-5-322.1 SIP 8-5-320 8-5-321	N		Floating roof fittings, visual inspection of outer most seal	BAAQMD 8-5-402.2 8-5-402.3 8-5-411.3 (optional)	P/Q (optional)	Fitting inspection; Visual inspection
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records

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	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NESHAPS CC and NSPS Kb	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Tanks LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS						
VOC	63.640 (n)(1), 60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	63.640(n)(8), 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	visual inspection
VOC	63.640 (n)(1), 60.113b (a)(1) & (4)	Y		Primary rim-seal standards; no holes or tears	63.640(n)(8), 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	visual inspection
VOC	63.640 (n)(1), 60.113b (a)(1) & (4)	Y		Secondary rim-seal standards; no holes or tears	63.640(n)(8), 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	visual inspection
VOC	63.640 (n)(1), 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.640(n)(8), 60.113b (a)(2)	P/A	visual inspection
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8), 60.116b(c)	Upon change of service	record
VOC		Y		Record of each initial, annual, and 10-year tank inspection	63.640(n)(8), 60.115b(a)(2)	For each tank inspection	record
VOC		Y		Report of non-compliant annual inspection for tanks with secondary seals	63.640(n)(8), 60.115b(a)(4)	Within 30 days of inspection	report
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition # 9296	Y		The total throughput shall not exceed 575,000 1,303,000 barrels of	BAAQMD Condition # 9296	P/M	Records of monthly and annual tank

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
	Part C1			methanol /ethanol in any rolling 12 consecutive month period.	Part C6		throughputs
POC	BAAQMD Condition # 9296 Part C2	Y		Total POC emissions including fugitive POC emissions shall not exceed 0.87 tons in any rolling 12 consecutive month period.	BAAQMD Condition # 9296 Part C6	P/M	Records of monthly and annual tank throughputs
					BAAQMD 8-18	As Required	Method 21 portable hydrocarbon detector
Storage	BAAQMD Condition # 9296 Part C5	Y		The S-210 internal floating roof tank shall only store methanol /ethanol unless written authorization is received from the APCO allowing a change.	BAAQMD Condition # 9296 Part C5	P/E	Records of material stored

Table VII – J14
Applicable Limits and Compliance Monitoring Requirements
S-55 (TK-2801) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J14
Applicable Limits and Compliance Monitoring Requirements
S-55 (TK-2801) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				OR	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – vented to fuel gas recovery system
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane	SIP 8-5-503	P/E	Portable hydrocarbon

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
				after degassing			detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR Part 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)
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 Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
NONE	40 CFR Part 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; MACT
EXEMPT (MIXED C5s)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				OR	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source Test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – vented to fuel gas recovery system

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J16
Applicable Limits and Compliance Monitoring Requirements
S-124 (TK-1735) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS; MACT
EXEMPT (MIXED C5S)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC		N		Inspection, abatement efficiency determination and source test reports	BAAQMD 8-5-404	P/after each reportable event	Reports
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR Part 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	Organic Compounds – STORAGE OF ORGANIC LIQUIDS						

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
Regulation 8-5	LIMITS AND MONITORING FOR FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				OR	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – vented to fuel gas recovery system
VOC	SIP 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurement	Method 21 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
						s at 15 minute intervals	
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.						
BAAQMD Permit	PERMIT CONDITIONS						
	BAAQMD Condition # 7559 Part 1	Y		VOC emissions emitted from the spent acid tank (S-133) shall be routed to the flare gas recovery header (S-9).	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J18
Applicable Limits and Compliance Monitoring Requirements
S-227 (TK-1741)
NSPS SUBPART KB FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
					BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – vented to fuel gas recovery system
VOC	BAAQMD	N		Residual organic	BAAQMD	P/each time	Method 21

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
	8-5-328.1			concentration of < 10,000 ppm as methane after degassing	8-5-328.1	emptied & degassed; 4 consecutive measurements at 15 minute intervals	portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC	SIP 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
NSPS Kb	40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Vessels						
VOC	40 CFR Part 60 NSPS Kb 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	None	P/A if criteria met	Method 21
VOC	40 CFR Part 60 NSPS Kb 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J19
Applicable Limits and Compliance Monitoring Requirements

FIXED ROOF TANKS

S-93 (TK-1772), S-94 (TK-1773), S-95 (TK-1774), S-96 (TK-1775), S-99 (TK-1778), S-100 (TK-1779), S-106 (TK-1797), S-107 (TK-1798), S-109 (TK-1802), S-111 (TK-1804), S-116 (TK-1809), S-118 (TK-1811), S-119 (TK-1812), S-140 (TK-1204), S-145 (TK-1201)

EXTERNAL FLOATING ROOF TANKS

S64 (TK-1712), S66 (TK-1714)
EXEMPT TANKS, MACT GROUP 2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
NESHAPS CC	40 CFR Part 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 – J20
Applicable Limits and Compliance Monitoring Requirements
S-98 (TK-1777)
EXEMPT FIXED ROOF TANK; MACT EXEMPT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
NONE	40 CFR Part 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), 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 Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J21
Applicable Limits and Compliance Monitoring Requirements
S-108 (TK-1801), 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
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				OR	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NESHAPS CC	40 CFR Part 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—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 Regulation 8-5	Organic Compounds—STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look-up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				OR	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NESHAPS	40 CFR 63 Subpart CC—NESHAPS for Petroleum Refineries						

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
CC	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)
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 Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
					BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J23
Applicable Limits and Compliance Monitoring Requirements
S-113 (TK-1806), S-114 (TK-1807), S-115 (TK-1808), S-117 (TK-1810), S-120 (TK-1813), S-122 (TK-1814), S-123 (TK-1794)
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
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
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 – J24
Applicable Limits and Compliance Monitoring Requirements
S-143 (TK-1034)
FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL; WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-301 SIP 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look-up table or sample analysis; records;
VOC	BAAQMD	N		Tank cleaning agents	BAAQMD	N	Sample

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; 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
	8-5-331.1			IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	8-5-331.1		analysis
NONE	40 CFR 63 Subpart CC) — NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.						
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition # 13045 Part 1	Y		Throughput shall not exceed 15,000 gallons during any rolling 12 consecutive month period	BAAQMD Condition # 13045 Part 2	P/M	Record

Table VII—J26
Applicable Limits and Compliance Monitoring Requirements
MISCELLANEOUS EQUIPMENT: DOCK SUMP
S-239 (TK-1918)
WITH PERMIT CONDITIONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A
Throughput	BAAQMD Condition # 18422 Part 1	Y		Total liquid throughput shall not exceed 360,000 gallons during any consecutive 12-month period (Cumulative Increase)	BAAQMD Condition # 18422 Part 3	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J27
 Applicable Limits and Compliance Monitoring Requirements
 S-158 (TK-2902)
 FIXED ROOF TANK <10 KGALS WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-2	Organic Compounds – MISCELLANEOUS OPERATIONS						
VOC	BAAQMD 8-2-301	Y		Emissions < 15 lbs/day and concentration < 300 PPM	BAAQMD Condition # 9584, Part 2	P/M	Record
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS IN EXEMPT SERVICE						
Vapor Pressure	BAAQMD 8-5-117 SIP BAAQMD Condition #20762, Part 4	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm OR	BAAQMD 8-5-403 8-5-403.1 BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/SA P/Q (optional)	Method 21 portable hydrocarbon detector Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)

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 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	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.						
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition # 9584 Part 1	Y		Throughput shall not exceed 30 kgals in any rolling 12 consecutive months	BAAQMD Condition # 9584 Part 2	P/M	Record

Table VII – J28
Applicable Limits and Compliance Monitoring Requirements
S-1013 (D-2720) – PRESSURE TANK; NITROGEN BLANKET; 10 KGAL CAPACITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR PRESSURE TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J28
Applicable Limits and Compliance Monitoring Requirements
S-1013 (D-2720) – PRESSURE TANK; NITROGEN BLANKET; 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
VOC	BAAQMD 8-5-307.3	N		Pressure relief devices on pressure tank must be gas tight (< 500 ppm as methane)	BAAQMD 8-5-403 8-5-403.2	P/SA	Method 21 Portable hydrocarbon detector
VOC	BAAQMD 8-5-307.3	N		Pressure relief devices on pressure tank must be gas tight (< 500 ppm as methane)	BAAQMD 8-5-403 8-5-403.2 8-5-411 (optional)	P/Q (optional)	Method 21 Portable hydrocarbon detector; enhanced monitoring
VOC	SIP 8-5-307	Y		Pressure vessel must be gas tight (< 100 ppm as methane)	SIP 8-5-503 8-5-605	None	Method 21 Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR Part 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-185
EXEMPT FIXED ROOF TANKS <10 KGALS
S-132 (TK-2711), S-134 (TK-2713)
EXEMPT FIXED ROOF CAUSTIC TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records
NONE	40 CFR Part 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 MACT RECORDKEEPING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J30
Applicable Limits and Compliance Monitoring Requirements
S-230 (TK-4460) – EXEMPT FIXED ROOF TANK WITH MACT RECORDKEEPING

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NSPS Kb	40 CFR Part 60, Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries Exempt per 60.110b(b) [low vapor pressure]						
NESHAPS CC	40 CFR Part 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 – J31.1
Applicable Limits and Compliance Monitoring Requirements
S-132 (TK-2711), S-134 (TK-2713) – EXEMPT FIXED ROOF CAUSTIC TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Condition #20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records

Table VII – J31.2
Applicable Limits and Compliance Monitoring Requirements
S-231 (TK-1943), S-236 (TK-1901 NEW) – EXEMPT NON-ORGANIC TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirements

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
Throughput	BAAQMD Condition 20820, Part 44	Y		480 short tons per day, daily maximum (S-236 Only)	BAAQMD Condition 20820, Part 45	P/D	Records
Opacity	BAAQMD 6-1-301	N Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N Y		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

Table VII – J32
Applicable Limits and Compliance Monitoring Requirements
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)
EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed	BAAQMD 8-5-401.2	P/SA	Measurement and visual

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J32
Applicable Limits and Compliance Monitoring Requirements
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)
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
	SIP 8-5-320			covers			inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q and every time a seal is replaced (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	records
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 Part 61, Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Tanks						
VOC	63.647(a), 61.351(a)2,	Y		Deck fitting closure standards	63.647(a), 61.351(a)2,	Each time emptied &	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J32
Applicable Limits and Compliance Monitoring Requirements
S-81 (TK-1753), S-85 (TK-1757), S-104 (TK-1795)
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
	60.112b(a)(2)(ii)				60.113b(b)(6)	degassed	
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	P/A	measurement and visual inspection

Table VII – J33
Applicable Limits and Compliance Monitoring Requirements
S-104 (TK-1795)
EXTERNAL FLOATING ROOF TANKS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-304.6.1	N		Leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a	Seal inspection

VII. Applicable Limits and Compliance Monitoring Requirements

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Applicable Limits and Compliance Monitoring Requirements
S-104 (TK-1795)
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
						seal is replaced	
VOC	BAAQMD 8-5-322	Y		Secondary rim seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q and every time a seal is replaced (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	records
NONE	National Emission Standard for Petroleum Refineries (Refinery MACT) Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).						
NESHAPS FF and NSPS Kb	40 CFR 61 Subpart FF—NESHAPS for Benzene Waste Sources 40 CFR 60 Subpart Kb—NSPS for VOL Storage Tanks						
VOC	63.647(a), 61.351(a)(2), 60.112b(a)(2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a)(2), 60.113b(b)(6)	Each time emptied & degassed	visual inspection
VOC	63.647(a),	Y		Primary rim seal standards;	63.647(a),	5-yr intervals	measurement

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J33
Applicable Limits and Compliance Monitoring Requirements
S-104 (TK-1795)
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
	61.351 (a)(2); 60.113b (b)(4)(i)			includes gap criteria	61.351(a)(2); 60.113b(b)(1); (2) & (3)		and visual inspection
VOC	63.647(a); 61.351 (a)(2); 60.113b (b)(4)(ii)	Y		Secondary rim seal standards; includes gap criteria	63.647(a); 61.351(a)(2); 60.113b(b)(1); (2) & (3)	P/A	measurement and visual inspection

Table VII – J34
Applicable Limits and Compliance Monitoring Requirements
S-101 (TK-1791), S-103 (TK-1793), S-105 (TK-1796)
INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-320 <u>SIP</u> <u>8-5-320</u>	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 <u>SIP</u> <u>8-5-321</u>	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD	Y		Secondary rim-seal	BAAQMD	P/10 year	Seal

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Applicable Limits and Compliance Monitoring Requirements
S-101 (TK-1791), S-103 (TK-1793), S-105 (TK-1796)
INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	8-5-322 SIP 8-5-322			standards; includes gap criteria	8-5-402.1	intervals and every time a seal is replaced	inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-322	N		Floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q and every time a seal is replaced (optional)	Seal and fitting inspection; enhanced monitoring
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1 SIP 8-5-305	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
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 Part 61, Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Tanks						
VOC	63.647(a),	Y		Floating roof and deck	63.647(a),	Prior to	visual

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J34
Applicable Limits and Compliance Monitoring Requirements
S-101 (TK-1791), S-103 (TK-1793), S-105 (TK-1796)
INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	61.351(a)(1), 60.112b(a)(1)(iv)-(ix), 60.113b(a)(1), 60.113b(a)(4)			fitting closure standards	61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	filling tank, each time tank emptied & degassed, and at least every 10 years	inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Secondary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	visual inspection

Table VII – J35
Applicable Limits and Compliance Monitoring Requirements
S-112 (TK-1805) – 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	Organic Compounds - STORAGE OF ORGANIC LIQUIDS						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J35
Applicable Limits and Compliance Monitoring Requirements
S-112 (TK-1805) – 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
Regulation 8-5	LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
Vapor Pressure	BAAQMD 8-5-1176 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3 SIP 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1 SIP 8-5-305	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-320 8-5-321 8-5-321.1 SIP 8-5-320 8-5-321	N		Floating roof fittings, visual inspection of outer most seal	BAAQMD 8-5-402.2 8-5-402.3 8-5-411.3 (optional)	P/Q (optional)	Fitting inspection; Visual inspection
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after	SIP 8-5-503	P/each time emptied &	Portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J35
Applicable Limits and Compliance Monitoring Requirements
S-112 (TK-1805) – 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
				degassing		degassed	detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	Records
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 Part 61, Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Tanks						
VOC	63.647(a), 61.351(a)(1), 60.112b(a)(1)(iv)-(ix), 60.113b(a)(1), 60.113b(a)(4)	Y		Floating roof and deck fitting closure standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Secondary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J35
Applicable Limits and Compliance Monitoring Requirements
S-112 (TK-1805) – 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
	(a)(2)						

Table VII—J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds—STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True-vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-303.1	N		Pressure-vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure-vacuum valve sealing mechanism must be gas-tight: < 500 ppm OR	BAAQMD 8-5-403 8-5-403.1	P/SA	Method-21 portable hydrocarbon detector
					BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method-21 portable hydrocarbon detector
					BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition # 11888 Parts 5 and 6	€	Temperature monitoring device (A-57 Thermal Oxidizer)
					BAAQMD Condition # 11888 Parts 11, 14, and 16	€	Flow meter and VOC analyzer (A-37 Carbon canisters)
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15-minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents	BAAQMD 8-5-331.1	N	Sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter			
NONE	40 CFR 63 Subpart CC— for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).						
NESHAPS FF	40 CFR 61 Subpart FF— NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CARBON CANISTERS						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
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 ear seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	PERMIT CONDITIONS FOR CARBON CANISTERS						
NMHC	BAAQMD Condition # 11888 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition #’s 11888 Part 11 and 11888 Part 16	C	Flow meter and VOC analyzer
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11888 Part 12	P/M	Record
VOC	BAAQMD Condition #	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition #	P/Q	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	11888 Part 13				11888 Part 13		
NESHAPS FF	40 CFR 61 Subpart FF—NESHAPS for Benzene Waste Operations						
	LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (<500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(e)	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 ear 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(e)(1)	C	Temperature monitoring device
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZER						
VOC	BAAQMD Condition # 11888 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11888 Parts 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11888 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11888 Parts 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11888 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11888 Parts 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11888 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3 consecutive hours	BAAQMD Condition # 11888, Parts 5 and 6	C	Temperature monitoring device
NMHC	BAAQMD	Y		Total combined NMHC	BAAQMD	C	Temperature

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J36
Applicable Limits and Compliance Monitoring Requirements
S-131 (TK-2069)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Condition # 11888 Part 10			emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	Condition # 11888 Parts 5 and 6		monitoring device
NMHC		Y		Record of NMHC emissions	BAAQMD Condition # 11888 Part 12	P/M	Record

Table VII—J37
Applicable Limits and Compliance Monitoring Requirements
S-150 (TK-2051)
FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER SLUDGE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds—STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look-up table or sample analysis; Records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector

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
				<u>OR</u>	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition # 11879 Parts 5 and 6	C	Temperature monitoring device (A-57 Thermal Oxidizer)
					BAAQMD Condition # 11879 Parts 11, 14, and 16	C	Flow meter and VOC analyzer (A-37 Carbon canisters)
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive	Method 21 portable hydrocarbon

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
						measurements at 15 minute intervals	detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NONE	40 CFR 63 Subpart CC— for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).						
NESHAPS FF	40 CFR 61 Subpart FF— NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CARBON CANISTERS						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (<500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(e)	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 ear seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	PERMIT CONDITIONS FOR CARBON CANISTERS						
NMHC	BAAQMD Condition #	Y		Total combined NMHC emissions from WWTP	BAAQMD Condition #	C	Flow meter and VOC

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
	11879 Part 10			(A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	11879, Parts 11 and 16		analyzer
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11879 Part 12	P/M	Record
VOC	BAAQMD Condition # 11879 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11879 Part 13	P/Q	Method 21
NESHAPS FF	40 CFR 61 Subpart FF—NESHAPS for Benzene Waste Operations						
	LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(e)	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 ear 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(e)(1)	C	Temperature monitoring device
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZER						
NOx	BAAQMD Condition # 11879 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 5 & 6	C	Temperature Monitor
CO	BAAQMD Condition # 11879	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11879	C	Temperature

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
	Part 2				Part 5 & 6		Monitor
VOC	BAAQMD Condition # 11879 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11879 Part 5, 6 & 8	C	Temperature Monitor
VOC	BAAQMD Condition # 11879 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3 consecutive hours	BAAQMD Condition #'s 11879, Parts 5 and 6	C	Temperature monitoring device
NMHC	BAAQMD Condition # 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 11879 Parts 5 and 6	C	Temperature monitoring device
NMHC		Y		Record of NMHC emissions	BAAQMD Condition # 11879 Part 12	P/M	Record

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK-2027), S-196 (TK-2077)
NSPS SUBPART Kb FIXED ROOF TANKS
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
~~WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE – BENZENE WASTEWATER~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	BAAQMD 8-5-117	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and	Look up table or sample

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK-2027), S-196 (TK-2077)
NSPS SUBPART KB FIXED ROOF TANKS

Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
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
	8-5-301 SIP 8-5-117 8-5-301					upon change of service	analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				<u>OR</u>	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	<u>BAAQMD</u>	Y		Control device standards;	<u>BAAQMD</u> Condition-#	C	Flow meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK-2027), S-196 (TK-2077)
NSPS SUBPART Kb FIXED ROOF TANKS

Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
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
	8-5-306 SIP 8-5-306.1			includes 95% efficiency requirement	11880 Parts 3 and 7		CPMS and VOC analyzer CPMS S (A-36 Carbon canisters) Source Test
VOC	BAAQMD 8-5-306 SIP 8-5-306.1	Y		Control device standards; includes 95% efficiency requirement	Condition 11880 Parts 11, 12, 13	C	Temperature monitoring CPMS
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NSPS Kb	40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES – A36 Carbon Canisters and A65 Thermal Oxidizer						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21 portable hydrocarbon detector
VOC (A36)	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	60.113b(c)(2)	as approved (continuous)	specified Specified parameter (VOC mass emissions)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK-2027), S-196 (TK-2077)

NSPS SUBPART KB FIXED ROOF TANKS

Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
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 (A36)	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	Condition 11880 Parts 3 and 7	C	Flow meterCPMS and VOC analyzerCPMS
VOC (A65)	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	60.113b(c)(2)	as approved (continuous)	Specified parameter (temperature)
VOC (A65)	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	Condition 11880 Parts 11, 12, 13	C	Temperature monitorCPMS
NONE	40 CFR Part 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 Part 61, Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CONTROL DEVICES–A36 Carbon Canisters and A65 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 portable hydrocarbon detector
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 portable hydrocarbon detector
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 (A36)	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 analyzerCPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J38
Applicable Limits and Compliance Monitoring Requirements
S-193 (TK-2027), S-196 (TK-2077)
NSPS SUBPART KB FIXED ROOF TANKS

Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
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 (A65)	63.647(a) 61.349(a) (2)(i)(A)	Y		Control device standards: includes 95% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitor CPMS
BAAQMD Permit	PERMIT CONDITIONS FOR CVS & CONTROL DEVICES – A36 Carbon Canisters and A65 Thermal Oxidizer						
NMHC (A36)	BAAQMD Condition # 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	BAAQMD Condition #s 11880, -Parts 3 and 7	C	Flow meter CPMS and VOC analyzer CPMS
NMHC (A65)	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11880 Parts 3, 12, 13	C	Temperature monitor CPMS
NMHC	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11880 Part 4	P/DM	Records and Calculations
Temperature limit	Condition 11880 Part 11	Y		1400° F. in outlet or as determined by source test averaged over 3 consecutive hours	Condition 11880 Parts 12, 13	C	Temperature monitor CPMS
VOC	BAAQMD Condition # 11880 Part 5	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11880 Part 5	P/Q	Method 21

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J39
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)
STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds—STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: <100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition # 11882 Parts 5 and 6	C	Temperature monitoring device (A-57 Thermal Oxidizer)
					BAAQMD Condition # 11882 Parts 11, 14, and 16	C	Flow meter and VOC analyzer (A-37 Carbon canisters)
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; Records
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
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						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J39
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)
STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (<500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(e)	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 ear-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
BAAQMD Permit	PERMIT CONDITIONS FOR CARBON CANISTERS						
NMHC	BAAQMD Condition # 11882 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) <15 lb/day, averaged over one month	BAAQMD Condition #'s 11882, Parts 11 and 16	C	Flow meter and VOC analyzer
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11882 Part 12	P/M	Record
VOC	BAAQMD Condition # 11882 Part 13	Y		Tank PRV leak tightness standard (<500 ppmw)	BAAQMD Condition # 11882 Part 13	P/Q	Method 21
NESHAPS FF	40 CFR 61 Subpart FF—NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & THERMAL OXIDIZER						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (<500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(e)	P/Q	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII—J39
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055), S-200 (D-2056)
STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES—
BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	(i)(B)						
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 ear-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(e)(1)	C	Temperature monitoring device
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZER						
VOC	BAAQMD Condition # 11882 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11882 Part 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11882 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11882 Part 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11882 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11882 Part 5 & 6	C	Temperature
VOC	BAAQMD Condition # 11882 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3 consecutive hours	BAAQMD Condition #'s 11882, Parts 5 and 6	C	Temperature monitoring device
NMHC	BAAQMD Condition # 11882 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 11882 Parts 5 and 6	C	Temperature monitoring device
NMHC		Y		Record of NMHC emissions	BAAQMD Condition # 11882 Part 12	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J40
Applicable Limits and Compliance Monitoring Requirements
S-205 (TK-2026), S-206 (TK-2076)
NSPS SUBPART KB FIXED ROOF TANK
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
~~**WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE – BENZENE WASTE**~~
WATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				<u>OR</u>	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector

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
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE – BENZENE WASTE
WATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306 SIP 8-5-306.1	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition # 11880 Parts 3 and 7	C	Flow meter CPMS and VOC analyzer CPMS (A-36 Carbon canisters)
VOC	BAAQMD 8-5-306 SIP 8-5-306.1	Y		Control device standards; includes 95% efficiency requirement	Condition 11880 Parts 11, 12, 13	C	Temperature monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
NSPS	40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Vessels						

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
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE – BENZENE WASTE
WATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Kb	LIMITS AND MONITORING FOR CVS & CONTROL DEVICES– <u>A36 Carbon Canisters and A65 Thermal Oxidizer</u>						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21 <u>portable hydrocarbon detector</u>
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)
<u>VOC (A36)</u>	<u>60.112b (a)(3)(ii)</u>	<u>Y</u>		<u>Control device standards; includes 95% efficiency requirement</u>	<u>BAAQMD Condition 11880 Parts 3 and 7</u>	<u>C</u>	<u>Flow meterCPMS and VOC analyzerCPMS</u>
<u>VOC (A65)</u>	<u>60.112b (a)(3)(ii)</u>	<u>Y</u>		<u>Control device standards; includes 95% efficiency requirement</u>	<u>60.113b(c)(2)</u>	<u>as approved (continuous)</u>	<u>Specified parameter (temperature)</u>
<u>VOC (A65)</u>	<u>60.112b (a)(3)(ii)</u>	<u>Y</u>		<u>Control device standards; includes 95% efficiency requirement</u>	<u>BAAQMD Condition 11880 Parts 11, 12, 13</u>	<u>C</u>	<u>Temperature monitorCPMS</u>
NONE	40 CFR Part 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 Part 61, Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS & CONTROL DEVICES– <u>A36 Carbon Canisters and A65 Thermal Oxidizer</u>						
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	P/A	Method 21 <u>portable hydrocarbon detector</u>
VOC	63.647(a) 61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J40
Applicable Limits and Compliance Monitoring Requirements
S-205 (TK-2026), S-206 (TK-2076)
NSPS SUBPART KB FIXED ROOF TANK
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE – BENZENE WASTE
WATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21 <u>portable hydrocarbon detector</u>
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 (A36)	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 <u>analyzer</u> CPMS
VOC (A65)	63.647(a) 61.349(a) (2)(i)(A)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring CPMS
BAAQMD Permit	PERMIT CONDITIONS FOR CVS & CONTROL DEVICES – A36 Carbon Canisters and A65 Thermal Oxidizer						
NMHC (A36)	BAAQMD Condition # 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	BAAQMD Condition # 11880, -Parts 3 and 7	C	Flow meter <u>CPMS</u> and VOC <u>analyzer</u> CPMS
NMHC (A65)	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11880 Parts 3, 12, 13	C	Temperature monitoring CPMS
NMHC	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11880 Part 4	P/D	Records and Calculations
NMHC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition #	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J40
Applicable Limits and Compliance Monitoring Requirements
S-205 (TK-2026), S-206 (TK-2076)
NSPS SUBPART KB FIXED ROOF TANK
Abated by A-36 Carbon Canisters and/or A-65 Thermal Oxidizer
WITH CLOSED VENT SYSTEM & CARBON CONTROL DEVICE – BENZENE WASTE
WATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					11880 Part 4		
VOC	BAAQMD Condition # 11880 Part 5	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11880 Part 5	P/Q	Method 21
Temperature limit	Condition 11880 Part 11	Y		1400o F. in outlet or as determined by source test averaged over 3 consecutive hours	Condition 11880 Parts 12, 13	C	Temperature monitoring CP MS

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	BAAQMD 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	BAAQMD 8-2-601	N	N/A
BAAQMD Regulation 8-5	Organic Compounds – STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change of service	Look up table or sample analysis; records
VOC	BAAQMD 8-5-307.3	N		Pressure relief devices on pressure tank must be gas tight (< 500 ppm as methane)	BAAQMD 8-5-403 8-5-403.2 SIP 8-5-403	P/SA	Method 21 Portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J41
Applicable Limits and Compliance Monitoring Requirements
S-208 (D-920)
COKER SLUDGE DRUM WITH VAPOR RECOVERY ROUTED TO FUEL GAS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-307.3	N		Pressure relief devices on pressure tank must be gas tight (< 500 ppm as methane)	BAAQMD 8-5-403 8-5-403.2 8-5-411 (optional) SIP 8-5-403	P/Q (optional)	Method 21 Portable hydrocarbon detector; enhanced monitoring
VOC	SIP 8-5-307	Y		Pressure vessel must be gas tight (< 100 ppm as methane)	SIP 8-5-503 8-5-605	None	Method 21 Portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	SIP 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis
BAAQMD Permit	PERMIT CONDITIONS FOR SLUDGE DRUM						
VOC	BAAQMD Condition # 8771 Part 4	Y		Throughput limit for 12 consecutive month period	BAAQMD Condition # 8771 Part 5	P/M	Record
NONE	40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels (10/15/2003) Exempt per 60.110b(a) [capacity < 75 cu meters]						
NONE	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Exempt from NESHAPS per 63.640(d)(5). Emission point routed to fuel gas system.						
NONE	40 CFR Part 61, Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d). Emissions point routed to fuel gas system.						

Table VII – J42
Applicable Limits and Compliance Monitoring Requirements
MACT EXEMPT ~~LPG PRESSURIZED SPHERES~~ LIQUIFIED ORGANIC GAS
STORAGE
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725, D-1907

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J42
Applicable Limits and Compliance Monitoring Requirements
MACT EXEMPT ~~LPG PRESSURIZED SPHERES~~ LIQUIFIED ORGANIC GAS
STORAGE
TK-1721, TK-1722, TK-1723, TK-1724, TK-1725, ~~D-1907~~

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR PRESSURE TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E	Look up table or sample analysis; records
VOC	SIP 8-5-307	Y		Pressure tank must be gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-307.3	N		Pressure relief devices on pressure tank must be gas tight (< 500 ppm as methane)	BAAQMD 8-5-403 8-5-403.2 <u>SIP 8-5-403</u>	P/SA	Method 21 Portable hydrocarbon detector
VOC	BAAQMD 8-5-307.3	N		Pressure relief devices on pressure tank must be gas tight (< 500 ppm as methane)	BAAQMD 8-5-403 8-5-403.2 8-5-411 (optional) <u>SIP 8-5-403</u>	P/Q (optional)	Method 21 Portable hydrocarbon detector; enhanced monitoring
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after degassing	SIP 8-5-503	P/E	portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J43
Applicable Limits and Compliance Monitoring Requirements
MACT EXEMPT REFRIGERATED BUTANE TANK WITH VAPOR RECOVERY
TK-1726

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS (11/27/02) LIMITS AND MONITORING FOR PRESSURE TANKS						
Vapor Pressure	BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E	Look up table or sample analysis; records
VOC	BAAQMD 8-5-303.1	N		Pressure vacuum valve set to 90% of tank's maximum allowable working pressure or at least 0.5 psig	BAAQMD 8-5-501.4	P/initial	Records
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism must be gas-tight: < 500 ppm	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector
				<u>OR</u>	BAAQMD 8-5-403 8-5-403.1 8-5-411.3 (optional)	P/Q (optional)	Method 21 portable hydrocarbon detector
				Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	BAAQMD 8-5-502.1	P/A	Source test (Not required if vented to fuel gas)
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection
VOC	SIP 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306	Y		Approved Emission Control System standards; includes 95% efficiency requirement	BAAQMD 8-5-503	N	No monitoring – recovered vapors returned to tank

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J43
Applicable Limits and Compliance Monitoring Requirements
MACT EXEMPT REFRIGERATED BUTANE TANK WITH VAPOR RECOVERY
TK-1726

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-328.1	P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-328.1.2	Y		Organic concentration in tank <10,000 ppm as methane after degassing	SIP 8-5-503	P/E	portable hydrocarbon detector
VOC	BAAQMD 8-5-331.1	N		Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	BAAQMD 8-5-331.1	N	Sample analysis

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP THERMAL OXIDIZER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 24	Y		Emissions of CO < 50 ppmv @ 3% O2	BAAQMD Condition 11879, 11882, 11888 & 13319 Parts 65 & 76	C	Temperature Monitor CPM S
NOX	BAAQMD Condition 11879, 11882, 11888 & 13319	Y		Emissions of NOX < 25 ppmv @ 3% O2	BAAQMD Condition 11879, 11882, 11888 & 13319 Parts 65 & 76	C	Temperature CPMS Monite E

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP THERMAL OXIDIZER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Part 3 ⁴						
Opacity	BAAQMD 6- 1 -301	N ^Y		Ringelmann No. 1 for no more than 3 minutes in any hour	BAAQMD Condition 11879, 11882 , 11888 & 13319 Part 6 ⁵ & 7 ⁶	C	Temperature CPMS monite ring
<u>Opacity</u>	<u>SIP</u> <u>6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes in any hour</u>	<u>Condition</u> <u>11879</u> <u>Part 6 & 7</u>	<u>C</u>	<u>Temperature</u> <u>CPMS</u> monite <u>E</u>
FP	BAAQMD 6- 1 -310	N ^Y		0.15 gr/dscf	BAAQMD Condition 11879, 11882 , 11888 & 13319 Part 6 ⁵ & 7 ⁶	C	Temperature CPMS monite ring
<u>FP</u>	<u>SIP</u> <u>6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>Condition</u> <u>11879</u> <u>Part 6 & 7</u>	<u>C</u>	<u>Temperature</u> <u>CPMS</u> monite <u>E</u>
H ₂ S	40-CFR-60 Subpart J 60.104(a)(1)	Y		H₂S concentration of feed gas to A-57 not to exceed 230 mg/dsem (0.10 grain/dscf)	40-CFR-60 Subpart J 60.105(a)(4) 60.13(i)	C	H₂S analyzer on feed gas or alternative monitoring when approved
<u>VOC</u>	<u>BAAQMD</u> <u>8-5-306</u>	<u>N</u>		<u>95% control of organic vapors</u>	<u>BAAQMD</u> <u>8-5-502.1</u> <u>8-5-603</u>	<u>P/A</u>	<u>Source Test</u>
VOC	BAAQMD 8-5-306 SIP 8-5-306.1	Y		95% control of organic vapors	BAAQMD Condition 11879, 11882 , 11888 & 13319 Part 5 ⁶ & 7 ⁶	C	Temperature CPMS monite ring
VOC	BAAQMD 8-8-302.3 &	Y		95% combined collection and destruction efficiency	BAAQMD Condition 11879, 11882 ,	C	Temperature CPMS monite ring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP THERMAL OXIDIZER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 8-8-302.3				11888 & 13319 Part 65 & 76		
VOC	<u>BAAQMD</u> <u>8-8-304</u> SIP 8-8-304	<u>Y</u>		<u>95% combined collection and destruction efficiency by weight</u>	<u>Condition</u> <u>11879,</u> <u>Part 6 & 7</u>	<u>C</u>	<u>Temperature monitoring</u> <u>CPMS</u>
VOC	<u>BAAQMD</u> <u>8-8-305.2</u> <u>SIP</u> <u>8-8-305.2</u>	<u>Y</u>		<u>70% combined collection and destruction efficiency by weight</u>	<u>Condition</u> <u>11879,</u> <u>Part 6 & 7</u>	<u>C</u>	<u>Temperature</u> <u>CPMS</u> <u>monite</u> <u>ring</u>
VOC	BAAQMD 8-8-307.2 & SIP 8-8-307.2	Y		≥70% combined collection and destruction efficiency by weight	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 65 & 76	C	Temperature <u>CPMS</u> <u>monite</u> ring
VOC	40 CFR Part 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 61.349(a)(1)(i)	P/A	Method 21 <u>portable</u> <u>hydrocarbon</u> <u>detector</u>
VOC	40 CFR Part 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR Part 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 61.349(a) (2)(i)(A)	Y		95% control	40 CFR Part 61.354(c)(1)	C	Temperature <u>CPMS</u> <u>monite</u> ring
NMHC	<u>BAAQMD</u> <u>Condition</u> <u>11879,</u> <u>11882,</u> 11888 Part <u>10 &</u> <u>13319</u> <u>Part 15</u>	<u>Y</u>		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	<u>BAAQMD</u> <u>Condition</u> <u>11879, 11882,</u> 11888 Part 12 <u>& 13319</u> <u>Part 17</u>	<u>P/D</u>	<u>Calculations</u> <u>Records</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57, WWTP THERMAL OXIDIZER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	BAAQMD Condition 11879, 11882, 11888 _Part 10 & 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 65 & 76	C	Temperature CPMS monite ring
<u>NMHC</u>	<u>Condition</u> <u>11879,</u> <u>Part 10</u>	<u>Y</u>		<u>Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month</u>	<u>Condition</u> <u>11879,</u> <u>Part 12</u>	<u>P/Initial</u>	<u>Source Test</u>
<u>NMHC</u>	<u>Condition</u> <u>11879,</u> <u>Part 10</u>	<u>Y</u>		<u>Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month</u>	<u>Condition</u> <u>11879,</u> <u>Part 13</u>	<u>P/D</u>	<u>Records</u>
VOC	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 53	Y		98.5% control efficiency	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 65 & 76	C	Temperature CPMS monite ring
Temper- ature limit	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 64	Y		1400° F. in outlet or as determined by source test averaged over 3 consecutive hours	BAAQMD Condition 11879, 11882, 11888 & 13319 Part 65 & 76	C	Temperature CPMS monite ring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K2
Applicable Limits and Compliance Monitoring Requirements
A65, DIVERSION AREA THERMAL OXIDIZER

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>CO</u>	<u>Condition 11880, part 10</u>	<u>Y</u>		<u>Emissions of CO < 350 ppmv @ 15% O2</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>NOX</u>	<u>Condition 11880, part 9</u>	<u>Y</u>		<u>Emissions of NOx < 50 ppmv @ 15% O2</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>Opacity</u>	<u>BAAQMD 6-1-301</u>	<u>N</u>		<u>Ringelmann No. 1 for no more than 3 minutes in any hour</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>Opacity</u>	<u>SIP 6-301</u>	<u>Y</u>		<u>Ringelmann No. 1 for no more than 3 minutes in any hour</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 gr/dscf</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>VOC</u>	<u>BAAQMD 8-5-306</u>	<u>Y</u>		<u>95% control of organic vapors</u>	<u>BAAQMD 8-5-502.1 8-5-603</u>	<u>P/A</u>	<u>Source Test</u>
<u>VOC</u>	<u>SIP 8-5-306.1</u>	<u>Y</u>		<u>95% control of organic vapors</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMSmonite</u> £
<u>VOC</u>	<u>40 CFR Part 60.112b (a)(3)(i)</u>	<u>Y</u>		<u>CVS no detectable emissions (< 500 ppmw)</u>	<u>40 CFR Part 60.112b (a)(3)(i)</u>	<u>N</u>	<u>Method 21 portable hydrocarbon detector</u>
<u>VOC</u>	<u>40 CFR Part 60.112b (a)(3)(ii)</u>	<u>Y</u>		<u>95% control</u>	<u>40 CFR Part 60.113b (c)(1)(i)</u>	<u>N</u>	<u>Records</u>
<u>VOC</u>	<u>40 CFR Part 61.349(a)(1)(i)</u>	<u>Y</u>		<u>CVS leak tightness standards (< 500 ppmw)</u>	<u>40 CFR Part 61.349(a)(1)(i)</u>	<u>P/A</u>	<u>Method 21 portable hydrocarbon</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K2
Applicable Limits and Compliance Monitoring Requirements
A65, DIVERSION AREA THERMAL OXIDIZER

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
							detector
VOC	40 CFR Part 61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR Part 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 61.349(a)(2)(i)(A)	Y		95% control	40 CFR Part 61.354(c)(1)	C	Temperature CPMSmonite £
NMHC	Condition 11880, part 2	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36 and A65) < 15 lb/day, averaged over one month	Condition 11880, part 3	P/Initial	Source Test
NMHC	Condition 11880, part 2	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36 and A65) < 15 lb/day, averaged over one month	Condition 11880, part 4	P/D	Records
NMHC	Condition 11880, part 2	Y		Total combined NMHC emissions from WWTP (A-37 and A-57) and diversion tanks (A-36 and A65) < 15 lb/day, averaged over one month	Condition 11880, Parts 11 & 12	C	Temperature CPMSmonite £
Temperature limit	Condition 11880, parts 11 & 13	Y		1400° F. in outlet or as determined by source test except during allowable temperature excursions	Condition 11880, Part 12	C	Temperature CPMSmonite £
Temp Excursion	Condition 11880, Parts 11, 13 & 14	Y		1400° F. in outlet or as determined by source test except during allowable temperature excursions	Condition 11880, Part 14	P/E	Records
Firing Rate	Condition	Y		Propane firing limit	Condition	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K2
Applicable Limits and Compliance Monitoring Requirements
A65, DIVERSION AREA THERMAL OXIDIZER

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	11880. part 8				11880. part 15		

Table VII – K3
Applicable Limits and Compliance Monitoring Requirements
A37, WWTP CARBON CANISTERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 gr/dscf	None	N	N/A
VOC	BAAQMD 8-5-306	N		95% control of organic vapors	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306.1	Y		95% control of organic vapors	Condition 11879. Parts 1 & 8	C	Carbon with Total Hydrocarbon VOC CPMSAnalyze E
VOC	BAAQMD 8- 8-302.3 SIP	Y		95% combined collection and destruction efficiency	Condition 11879. Parts 1 & 8	C	Carbon with Flow CPMSmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K3
Applicable Limits and Compliance Monitoring Requirements
A37, WWTP CARBON CANISTERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	8-8-302.3						and Total Hydrocarbon VOC Concentration
<u>VOC</u>	BAAQMD 8-8-304 SIP 8-8-304	<u>Y</u>		<u>95% combined collection and destruction efficiency by weight</u>	<u>Condition 11879, Part 6 & 7</u>	<u>C</u>	<u>Temperature CPMS monitoring</u>
<u>VOC</u>	BAAQMD 8-8-305.2 <u>SIP 8-8-305.2</u>	<u>Y</u>		<u>70% combined collection and destruction efficiency by weight</u>	<u>Condition 11879, Parts 1 & 8</u>	<u>C</u>	<u>Carbon with Flow CPMSmeter and VOC CPMSTotal Hydrocarbon Concentration</u>
<u>VOC</u>	BAAQMD 8-8-307.2 <u>SIP 8-8-307.2</u>	<u>Y</u>		<u>70% combined collection and destruction efficiency by weight</u>	<u>Condition 11879, Parts 1 & 8</u>	<u>C</u>	<u>Carbon with Flow CPMSmeter and VOC CPMSTotal Hydrocarbon Concentration</u>
<u>VOC</u>	<u>40 CFR Part 61.349(a)(1)(i)</u>	<u>Y</u>		<u>CVS leak tightness standards (< 500 ppmw)</u>	<u>40 CFR Part 61.349(a)(1)(i)</u>	<u>P/A</u>	<u>Method 21 portable hydrocarbon detector</u>
<u>VOC</u>	<u>40 CFR Part 61.349(a)(1)(ii)(B)</u>	<u>Y</u>		<u>CVS with bypass line car-seal closed</u>	<u>40 CFR Part 61.354(f)(1)</u>	<u>P/M</u>	<u>Visual inspection</u>
<u>VOC</u>	<u>40 CFR Part 61.349(f)</u>	<u>Y</u>		<u>CVS and control device evidence of visual defects</u>	<u>40 CFR Part 61.349(f)</u>	<u>P/Q</u>	<u>Visual inspection</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K3
Applicable Limits and Compliance Monitoring Requirements
A37, WWTP CARBON CANISTERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	40 CFR Part 61.349(a)(2)(i)(A)	Y		95% control	40 CFR Part 61.354(d)	P/D	Carbon with VOC CPMS analyzer
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A065) < 15 lb/day, averaged over one month	Condition 11879 Parts 8 & 11	P/D	Measurements and Calculations
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 13	P/D	Records

Table VII – K4
Applicable Limits and Compliance Monitoring Requirements
A36, DIVERSION AREA CARBON CANISTERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 gr/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K4
Applicable Limits and Compliance Monitoring Requirements
A36, DIVERSION AREA CARBON CANISTERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC	BAAQMD 8-5-306	N		95% control of organic vapors	BAAQMD 8-5-502.1	P/A	Source Test
VOC	SIP 8-5-306.1	Y		95% control of organic vapors	Condition 11880, Part 1 & 7	C	Carbon with VOC CPMS^{Total} Hydrocarbon Analyzer
VOC	40 CFR Part 60.112b (a)(3)(i)	Y		CVS no detectable emissions (< 500 ppmw)	40 CFR Part 60.112b (a)(3)(i)	N	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 60.112b (a)(3)(ii)	Y		95% control	40 CFR Part 60.113b (c)(1)(i)	N	Records
VOC	40 CFR Part 61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	40 CFR Part 61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector
VOC	40 CFR Part 61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	40 CFR Part 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR Part 61.349(f)	Y		CVS and control device evidence of visual defects	40 CFR Part 61.349(f)	P/Q	Visual inspection
VOC	40 CFR Part 61.349(a)(2)(i)(A)	Y		95% control	40 CFR Part 61.354(d)	P/D	Carbon with VOC CPMS^{Analyzer}
NMHC	Condition 11880, part 2	Y		Total combined NMHC emissions from carbon canisters (A-36 and A-37) and the thermal oxidizers (A-57 and A65) < 15 lb/day, averaged over one month	Condition 11880, part 3	P/D	Measurements and Calculations
NMHC	Condition 11880,	Y		Total combined NMHC emissions from carbon	Condition 11880,	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K4
Applicable Limits and Compliance Monitoring Requirements
A36, DIVERSION AREA CARBON CANISTERS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
	part 2			canisters (A-36 and A-37) and thermal oxidizers (A-57 and A65) < 15 lb/day, averaged over one month	part 4		

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VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits included in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 1-522	Continuous Emission Monitoring	Manual of Procedures, Volume V
BAAQMD Regulation 1-605	Laboratory, Source Test and Air Monitoring Procedures	Manual of Procedures
BAAQMD Regulation 6-1-301 SIP -Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-1-302 SIP -Regulation 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD Regulation 6-1-303 SIP -Regulation 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-1-304 SIP -Regulation 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-1-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
SIP Regulation 6-310		
BAAQMD Regulation 6-1-311 SIP 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD Regulation 6-1-330 SIP 6-330	Sulfur Recovery Units	Manual of Procedures, Volume IV, ST-20, Sulfur Dioxide, Sulfur Trioxide and Sulfuric Acid Mist
BAAQMD Regulation 8-2-301	VOC Emission Limit for Miscellaneous Operations	Manual of Procedures, Volume, IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA method 25 or 25A
BAAQMD Regulation 8-5-117 8-5-301 8-5-501.1 SIP 8-5-117 (8-5-602) (8-5-604)	Analysis of Samples, True Vapor Pressure	BAAQMD 8-5, Table I; or Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks
SIP Regulation 8-5-303.2 8-5-306, 8-5-307 (8-5-503) (8-5-605)	Organic compound leak concentration	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks) – Portable hydrocarbon detector
BAAQMD Regulation 8-5-118 8-5-303.2 8-5-304.6.1 8-5-307.3 (8-5-605.1) (8-5-605.2)	Organic compound leak concentration (gas tight requirements)	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks) – Portable hydrocarbon detector
BAAQMD	Approved Emission Control	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Regulation 8-5-303.2 8-5-306.1 8-5-307.3 8-5-502.1 (8-5-603)	System , or other abatement device for compliance with BAAQMD 8-5, 95% Abatement Efficiency Requirements	Carbon Sampling
BAAQMD 8-5-306.1 (8-5-603)	Baseline emissions for abatement efficiency determination	API Bulletin 2518 (as specified in BAAQMD 8-5-306.1)
BAAQMD Regulation 8-5-320 SIP 8-5-320	Floating Roof Tank (internal and external) tank fitting gap measurement	Physical measurements as described in BAAQMD 8-5-320 when required in BAAQMD 8-5-401.2 (external floating roof tanks) or 8-5-402.3 (internal floating roof tanks)..
BAAQMD Regulation 8-5-321 SIP 8-5-321	Floating Roof Tank (internal and external) primary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or 8-5-402.1 (internal floating roof tanks).
BAAQMD Regulation 8-5-322 SIP 8-5-322	Floating Roof Tank (internal and external) secondary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or 8-5-402.1 (internal floating roof tanks).
SIP Regulation 8-5-328.1.2 8-5-502 (8-5-603.2)	Tank Degassing Emission Control System, 90% Abatement Efficiency Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD Regulation 8-5-328.1 8-5-331 8-5-502.2 (8-5-603)	Tank Degassing or Cleaning Emission Control System, 90% Abatement Efficiency Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
SIP Regulation 8-5-328.1.2	Organic concentration in tank < 10,000 ppm as methane after	EPA Method 21 [40 CFR Part 60, Appendix A], Determination of Volatile Organic Compound Leaks

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
	degassing	
BAAQMD Regulation 8-5-328.1 (8-5-605)	Residual organic concentration in tank < 10,000 ppm as methane after degassing	EPA Method 21 [40 CFR Part 60, Appendix A], Determination of Volatile Organic Compound Leaks, as specified in 8-5-328.1 and 8-5-605.2
BAAQMD 8-5-331.1 (8-5-606.1)	Tank cleaning agent; Initial boiling point	ASTM D-1078-93; or Alternate approved method
BAAQMD 8-5-331.1 (8-5-606.2)	Tank cleaning agent; True vapor pressure	Manual of Procedures, Volume III, Lab Method 28; or Alternate approved method
BAAQMD 8-5-331.1 (8-5-606.3)	Tank cleaning agent; VOC content	Manual of Procedures, Volume III, Lab Method 31; or Alternate approved method
BAAQMD Regulation 8-7-301	Phase I Vapor Recovery Efficiency Requirements	Manual of Procedures, Volume IV, ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency, or as prescribed by CARB Test Procedure TP-201.1
BAAQMD Regulation 8-7-301.6 8-7-302.5	Vapor Tightness Requirements	Manual of Procedures, Volume IV, ST-30, Static Pressure Integrity Test, Underground Storage Tanks as prescribed by CARB Test Procedure TP-201.3 (underground tanks)
BAAQMD Regulation 8-7-302.8	Phase II Liquid Removal Requirements	Manual of Procedures, Volume IV, ST-37, Gasoline Dispensing Facility Liquid Removal Devices
BAAQMD Regulation 8-7-302.12 8-7-313.3	Phase II Liquid Retain Requirements	CARB Test Procedure TP-201.2E or test procedure determined by CARB to be equivalent to TP-201.2E
BAAQMD Regulation 8-7-302.13 8-7-313.3	Phase II Spitting Requirements	CARB Test Procedure TP-201.2D or test procedure determined by CARB to be equivalent to TP-201.2D
BAAQMD Regulation 8-7-302.14	Phase II Vapor Balance System Dynamic Backpressure Requirements	Manual of Procedures, Volume IV, ST-27, GDF Dynamic Back Pressure Test, or as prescribed by CARB Test Procedure TP-201.4
BAAQMD	Bypass Wastewater Requirements	Manual of Procedures, Volume III, Lab Method 33

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Regulation 8-8-114, 8-8-501	– Concentration of Dissolved Critical Organic Compounds	
BAAQMD Regulation 8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
SIP 8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
BAAQMD Regulation 8-8-302.6	Oil-Water Separators at Petroleum Refinery – vapor tight roof seals, fixed covers, access doors, openings	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-8-303	Gauging and Sampling Device on Oil-Water Separator – vapor tight cover, seal, or lid	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-8-307.2	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
SIP 8-8-307.2	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
BAAQMD Regulation 8-8-312	Controlled Wastewater Collection System Components At Petroleum Refineries	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-8-313.2	Uncontrolled Wastewater Collection System Components At Petroleum Refineries	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-18	Fugitive Emission Monitoring Requirements	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-18-306.4	Mass Emission Rate – Valves with Major Leaks	EPA Protocol for Equipment Leak – Emission Estimates, Chapter 4, Mass Emission Sampling (EPA-453/R-95-017)
BAAQMD Regulation 8-28-304.2	Pressure Relief Device Vapor Recovery Requirements after Repeat Releases	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A or Other methods to demonstrate control efficiency
SIP Regulation	POC emission rate limitation and	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Loading

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-44-301	emission reduction efficiency (>=95%) during vessel loading	Terminals and ST-34, Bulk and Marine Loading Terminals, Vapor Recovery Units
SIP Regulation 8-44-304.1 8-44-303	Leak free and gas tight requirements	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation-8-44-304.1	POC emission rate limitation and emission reduction efficiency (>=95%) during vessel loading	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals, Vapor Recovery Units, U.S.EPA Method 25, U.S. EPA Method 25A; or alternate approved method
BAAQMD Regulation-8-44-305	Liquid and gaseous equipment leak limits	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks; or alternate approved method
BAAQMD Regulation 9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD Regulation 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Lab Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	H ₂ S Gas Stream Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 25, Determination of H ₂ S in Effluents or equivalent method approved by APCO
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	H ₂ S Water Stream Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 32, Determination of H ₂ S in Process Water Streams or equivalent method approved by APCO
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	NH ₃ Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 1, Determination of NH ₃ in Effluents Collected in Acid Media Using the Specific Ion Electrode or equivalent method approved by APCO
BAAQMD Regulation 9-2-301	Limitations on H ₂ S Ground Level Concentrations	BAAQMD and SIP Manual of Procedures, Volume VI, Section 1, Area Monitoring

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
9-1-301		
BAAQMD Regulation 9-3-303	NO _x Emission Limit for New or Modified Heat Transfer Operations	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling (nitrogen oxides) and ST-14, Oxygen, Continuous Sampling Note: ST-13B (nitrogen oxides) has been deleted from Volume IV of the MOP
SIP Regulation 9-9-301.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 9-9-301.1 9-9-301.2	Emission Limits – Stationary Gas Turbines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 9-10-112	Limited Exemption, Low Fuel Usage	ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89
BAAQMD Regulations 9-10-301	Refinery-Wide NO _x Emission Limit	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling. For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NO _x Monitoring Policy.
BAAQMD Regulation 9-10-303	NO _x Emission Limit for Facility (Federal Requirement), 0.20 lb per MMBTU of heat input, operating day average	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling. For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NO _x Monitoring Policy.
BAAQMD Regulation 9-10-305	CO Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-10-303.1	NO _x Emission Limit, CO Boiler (Federal Requirement)	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14,Oxygen, Continuous Sampling
BAAQMD Regulation 9-10-304.1	NO _x Emission Limit, CO Boiler (BAAQMD Requirement)	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14,Oxygen, Continuous Sampling
BAAQMD Regulation 11-10-302.2	Wooden Cooling Tower Circulating Water Hexavalent Chromium Concentration	American Public Health Method 312B or equivalent method as approved by the APCO
40 CFR Part 60 Subpart Db 60.44b(a) 60.44b(e)	NO _x Emission Limit	40 CFR Part 60, Appendix B, Performance Specification 2
40 CFR Part 60 Subpart J 60.104(a)(1)	Fuel Gas H ₂ S Concentration Limit	40 CFR Part 60, Appendix A, EPA Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries; and 40 CFR Part 60, Appendix B, Performance Specification 7, Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources
40 CFR Part 60 Subpart J 60.105(c)	Daily coke burn - off rate	Daily coke burn - off rate calculation per 60.106(b)(3)
40 CFR Part 60 Subpart Kb 60.112b (a)(3)(i)	NSPS Subpart Kb Closed Vent System – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart Kb 60.112b (a)(3)(ii)	NSPS Subpart Kb Closed Vent System Performance (95% efficiency)	40 CFR Part 60, Subpart Kb 60.113b(c) Testing and Procedures
40 CFR Part 60 Subpart Kb	NSPS Subpart Kb External Floating Roof Tank primary rim	40 CFR Part 61, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.113b (b)(4)(i)	seal gap measurement	
40 CFR Part 60 Subpart Kb 60.113b (b)(4)(ii)	NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement	40 CFR Part 61, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
40 CFR Part 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit	ASTM D 1072-80,90, (Reapproved 1994) Standard Method for Total Sulfur in Fuel Gases
40 CFR Part 60 Subpart VV 60.482-2(b)(1)	Pumps in light liquid service – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.482-2(e)	Pumps in light liquid service and designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-3(d)	Compressor barrier fluid system and seal failure detection sensor.	
40 CFR Part 60 Subpart VV 60.482-3(i)	Compressors designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.482-4(b)(1)	Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.482-7(b)	Valves in gas/vapor service and in light liquid service – leak detection.	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.482-7(f)	Valves in gas/vapor service and in light liquid service and designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.482-7(h)	Valves in gas/vapor service and in light liquid service and designated as difficult-to-monitor.	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV	Pumps and valves in heavy liquid service, pressure relief devices	EPA Method 21 (40 CFR Part 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.482-8(b)	(liquid), and flanges and other connectors – leak detection	60 Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.483-2	Individual valves meeting criteria for skip period leak detection – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 60 Subpart VV 60.485(d)	Determination % VOC content in process fluid	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR Part 60 Subpart VV 60.485(e) Subpart GGG 60.593(d)	Demonstrate equipment is in light liquid service	ASTM D2879-83, 96, or 97 (Vapor pressure) OR Standard reference texts OR –equipment subject to 40 CFR Part 60, Subpart GGG is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM Method D86–78, 82, 90, 93, 95, or 96 (incorporated by reference as specified in §60.17).
40 CFR Part 60 Subpart VVa 60.482-2a (b)(1)	Pumps in light liquid service – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.482-2a(e)	Pumps in light liquid service and designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.482-3a(i)	Compressors designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.482-4a (b)(1)	Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.482-7a(b)	Valves in gas/vapor service and in light liquid service – leak detection.	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.482-7a(f)	Valves in gas/vapor service and in light liquid service and designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa	Valves in gas/vapor service and in light liquid service and	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.482-7a(h)	designated as difficult-to-monitor.	60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.482-8a(b)	Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.483-2a	Individual valves meeting criteria for skip period leak detection – leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VVa 60.485a(b)
40 CFR Part 60 Subpart VVa 60.485a(d)	Determination % VOC content in process fluid	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR Part 60 Subpart VVa 60.485a(e) Subpart GGGa 60.593a(d)	Demonstrate equipment is in light liquid service	ASTM D2879-83, 96, or 97 (Vapor pressure) OR Standard reference texts OR –equipment subject to 40 CFR Part 60, Subpart GGGa is in light liquid service if the percent evaporated is greater than 10 percent at 150 °C as determined by ASTM Method D86–78, 82, 90, 93, 95, or 96 (incorporated by reference as specified in §60.17).
40 CFR Part 60 Subpart GGG 60.593(b)(2)	Demonstrate compressor is in hydrogen service	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR Part 60 Subpart GGGa 60.593a(b)(2)	Demonstrate compressor is in hydrogen service	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR Part 61 Subpart V 61.242-8(a)(1)	Monitor to verify AVO leak	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 61, Subpart V 61.245(b)
40 CFR Part 61 Subpart V 61.245(d)	VHAP service determination	ASTM D-2267
40 CFR Part 61 Subpart FF 61.343 (a)(1)(i)(A)	Tank fittings leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 61 Subpart FF	Container fittings leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
61.345 (a)(1)(i)		60, Subpart VV 60.485(b)
40 CFR Part 61 Subpart FF 61.347 (a)(1)(i)(A)	Oil/Water Separator fittings leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 61 Subpart FF 61.349 (a)(1)(i)	Closed-vent system leak detection	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR Part 60, Subpart VV 60.485(b)
40 CFR Part 61 Subpart FF 61.349(a)(2) (i)(A)	Enclosed Combustion Control Device Requirements, > 95% Reduction	40 CFR Part 61, Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions
40 CFR Part 61 Subpart FF 61.349(a)(2) (ii)	Carbon Adsorption Control Device Requirements, 95% VOC or 98% benzene reduction	40 CFR Part 61, Subpart FF 61.356 Recordkeeping Requirements
40 CFR Part 61 Subpart FF 61.342(e)(2)(i)	Uncontrolled Benzene Wastewater Limit	40 CFR Part 61, Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions
40 CFR Part 61 Subpart FF 61.355(c)(3)	Measure benzene concentration in waste streams	From "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846: (1) Method 8020, Aromatic Volatile Organics, (2) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series (3) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics (4) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique From 40 CFR Part Part 136, Appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which

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VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
		these are approved EPA methods: (1) Method 602, Purgeable Aromatics, (2) Method 624, Purgeables
40 CFR Part 61 Subpart FF 61.355(h)	Test equipment for compliance with no detectable emissions requirements of 40 CFR Part 61, Subpart FF	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks)
40 CFR Part 61 Subpart FF 61.355(i)	Demonstrate compliance of a control device with a performance test	40 CFR Part 60, Appendix A, Method 1 or 1A 40 CFR Part 60, Appendix A, Method 2, 2A, 2C, or 2D 40 CFR Part 60, Appendix A, Method 18
40 CFR Part 63 Subpart CC 63.643(a)(2)	HAP Reduction Requirements for Fluid Cokers	40 CFR Part 63, Subpart CC 63.645 Test Methods and Procedures for Miscellaneous Process Vents
40 CFR Part 63 Subpart CC 63-646(a) 40 CFR Part 63 Subpart G 60.120(b)(3) 60.120(b)(5)	Refinery MACT (40 CFR Part 63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement	40 CFR Part 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
40 CFR Part 63 Subpart CC 63-646(a) 40 CFR Part 63 Subpart G 60.120(b)(4) 60.120(b)(6)	Refinery MACT (40 CFR Part 63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement	40 CFR Part 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
40 CFR Part 63 Subpart UUU 40 CFR Part 63.1567(b)(3)	Performance Test for Inorganic HAP (HCl) Emissions From Catalytic Reforming Units	Method 26A (40 CFR Part 60, Appendix A)
40 CFR Part 63.1564(b)(2)	Performance Test for PM Emissions from Catalytic Cracking Units	Method 5B or 5F (40 CFR Part 60, Appendix A)
40 CFR Part 63.1564(b)(2)	Compute PM Emission Rate of Coke Burn-Off	Equations 1 and 2 of 40 CFR Part 63, Subpart UUU 63.1564

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VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR Part 63 Subpart UUU 63.1568(b)(5)	Initial Compliance Demonstration for TRS Limit and Performance Evaluation for Continuous TRS Monitor at Sulfur Plants	Method 15 or 15A (40 CFR Part 60, Appendix A)

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IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

**Table IX A-1
 Permit Shield for Non-Applicable
 Benicia - Benicia Refinery**

Citation	Title or Description	Reason Not Applicable
BAAQMD Regulation 9-1-302	General Sulfur Dioxide Emission Limitation	300 ppm sulfur dioxide stack limit not applicable with GLM system in place as required by BAAQMD Regulations 9-1-110 and 9-1-310.3.

~~**Table IX A-4
 Permit Shield for Non-Applicable
 S-5 FCCU R-702**~~

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	The fluid catalytic cracking unit was constructed before, and has not been modified after, January 17, 1984

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a “hybrid” monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

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IX. Permit Shield

**Table IX B-1
 Permit Shield for Subsumed Requirements
 REFINERY**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 10-69	Subpart QQQ- Standards of Performance For Petroleum Refinery Wastewater Systems	40-CFR-63-Subpart-CC	BAAQMD-incorporation by reference of NSPS 40-CFR-60, Subpart QQQ is superceded by Refinery MACT, 40-CFR-63-Subpart CC.
40-CFR-60 Subpart QQQ	Standards of Performance for VOC-Emissions from Petroleum Refinery Wastewater Systems	40-CFR-63.640(o)(1)	For Valero, Subpart QQQ is superceded by Refinery MACT, 40-CFR-63-Subpart CC. Ref: 64.640(o)(1). Subpart CC cites 40-CFR-61-Subpart FF for Wastewater Standards.

**Table IX B-2
 Permit Shield for Subsumed Requirements
 S-21**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition #10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

**Table IX B-3
 Permit Shield for Subsumed Requirements
 S-22**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Condition	Continuous fuel flow monitor and recorder	BAAQMD Regulation	Fuel flow meters for boilers, steam generators, and process

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IX. Permit Shield

Table IX B--3
Permit Shield for Subsumed Requirements
S-22

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
#10574 Part 19		9-10-502.2 & SIP 9-10-502.2	heaters in petroleum refineries

Table IX B - 4
Permit Shield for Subsumed Requirements
S-220

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD Regulation 9-3-303: 125 ppm NOx)	BAAQMD Regulation 9-10-502 & SIP 9-10-502.2	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for 9-10-502 is too low to measure 125 ppm.)
BAAQMD Condition #10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

Table IX B – 5
Permit Shield for Subsumed Requirements
S-1030

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for

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IX. Permit Shield

Table IX B – 5
Permit Shield for Subsumed Requirements
S-1030

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
	NOx)		BAAQMD Condition 19177-18(c) is too low to measure 125 ppm.)

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IX. Permit Shield

**Table IX B – 6
 Permit Shield for Subsumed Requirements
 S-1031**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 125 ppm.)
40 CFR Part 60 Subpart Db 60.48b(e)(2) and (3)	Requirement for 500 ppm span	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 60.44b(e) and 60.44b(l)(1) limits. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 500 ppm.)
40 CFR Part 60 Subpart Db 60.44b(i)	30-day rolling average for NOx limit	BAAQMD Regulation 10-4 NSPS Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	BAAQMD Regulation 10-4 replaces the 30-day rolling NOx average with a 24-hour maximum limit as the averaging period.

**Table IX B - 8
 Permit Shield for Subsumed Requirements
 FUGITIVE COMPONENTS**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD 11-7-307.4	Valves	BAAQMD 8-18-404	Allows relief from monthly monitoring if designated as unsafe-to monitor. BAAQMD Regulation 8-18-404 does not allow this relief.

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IX. Permit Shield

**Table IX B – 9
 Permit Shield for Subsumed Requirements
 FUGITIVE COMPONENTS**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
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 Part 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 Part 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 superseded 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 superseded 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 Part 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 Part 61.350(b)	Standards: Delay of Repair	BAAQMD 8-18-306.1	Repair of technically impossible equipment may be delayed until next process unit shutdown. Subsumed by BAAQMD 8-18-306.1 which requires repair during the next turnaround or 5 years,

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IX. Permit Shield

Table IX B – 9
Permit Shield for Subsumed Requirements
FUGITIVE COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
			whichever is sooner.

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X. REVISION HISTORY

Initial Major Facility Review Permit Issuance (Application No. 3281):	December 1, 2003
Administrative Amendment (no application):	May 27, 2004
Reopening (Application No. 9298): “Revision 1”	December 16, 2004
Minor Revision (through Application No. 2488)	December 16, 2004
Reopening (Application No. 11697): <ul style="list-style-type: none">▪ “Revision 2”▪ Addressing EPA Revision 1 Reopening Issues.▪ Incorporated NSR Applications 10665 (S-103), 10355 (S-244) and 11018 (S-245).▪ Incorporated Minor Revision Application 11307 (NOx Box) Note: The Final Revision 2 was combined with Revision 3.	Proposed April 15, 2005 (See Note)
Reopening (Application No. 12600) <ul style="list-style-type: none">▪ “Revision 3”▪ Addressing EPA March 15, 2005 Order Denying in Part and Granting in Part the December 7, 2004 Petition from Our Children’s Earth.Incorporated NSR Applications 12588 (S-160), 12659 Change of NOx Box Condition 21233, and Application 12701, S-20 NOx Box Revision.▪ Incorporated Minor Revision Applications 12434 (S-20 NOx Box Revision), 12478 (NOx Box Condition 21233 Revision), and 12867 (Correction of A-57 Requirement 40 CFR Part 61.356(f)(2)(i)(A)).▪ Incorporated Administrative AdmendmentAmendment Applications 12575 (Change of S-142 Service) and incorporated the administrative changes associated with completing the Authority to Construct requirements of Application 7214 (A-57 Source Test).▪ Incorporated Significant Revision 12578, Condition 19466, Parts 3 and 7.	March 2, 2007

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X. Revision History

- Removed the following sources:
 - S-57 Crude Oil Tank TK-1701, External Floating Roof, 6300 kgal
 - S-58 Crude Oil Tank TK-1702, External Floating Roof, 18900 kgal
 - S-59 Crude Oil Tank TK-1703, External Floating Roof, 18900 kgal
 - S-60 Crude Oil Tank TK-1704, External Floating Roof, 6300 kgal
 - S-61 Crude Oil Tank TK-1705, External Floating Roof, 18900 kgal
 - S-62 Crude Oil Tank TK-1706, External Floating Roof, 18900 kgal
 - S-67 Gas Oil Tank TK-1715, External Floating Roof, 9450 kgal
 - S-68 Gas Oil Tank TK-1716, External Floating Roof, 8820 kgal
 - S-70 Resid Coker Feed Tank TK-1718, Vertical Fixed Roof, 5250 kgal
 - S-71 Resid Coker Feed Tank TK-1719, Vertical Fixed Roof, 15708 kgal
 - S-72 Gas Oil Tank TK-1720, External Floating Roof, 15204 kgal
 - S-74 HVN TK-1734, External Floating Roof, 7980 kgal

These sources are no longer owned by Valero Refining Company. They are now owned by Valero Logistics Operations, LP, and are covered by the Major Facility Review permit for Facility B5574 issued October 4, 2006. Removal of these sources was addressed in the B2626 Revision 3 Statement of Basis.

Reopening (Application No.)

- “Revision 4”
 - Incorporated the following applications:
 - NSR 12341/TV 12403 (EVR Phase I Replacement for S-165),
 - TV 12422 (Low Vapor Pressure Exempt Service for Tanks),
 - TV 12476 (Correct 8-5-306 for A-57 source test requirement),
 - NSR 13201/TV 13200 (H2S Limit Consistency),
 - NSR 13203/TV 13202 (ESP Operation),
 - NSR 14604/TV 14603 (SRU Consent Decree, H2S Limit),
 - NSR 14606/TV 14607 (Condition 18422 for S-239 Dock Sump),
 - NSR 14754/TV 14765 (Seal Replacement for S-81),
 - NSR 15052/TV 17033 (Powerformer Regeneration Facilities),
 - NSR 15317/TV 15386 (Abatement Consent Decree S-157 Sulfur Storage Pit),
 - NSR 15961/TV 15962 (Condition 21233 NOx Box for S-7),
 - NSR 2390/TV 17034 (Condition 17835, Parts 4, 5, and 6 for S-1027 Light Ends Rail Rack),
 - NSR 14443/TV14432 (dual tail gas hydrogenators, Subpart UUU),
 - TV 12868 (fugitive components do not route to a closed vent system or control device),
 - NSR 16302/TV 16327 (increase S-158 throughput),
 - NSR 16656/TV 16843 (S-157 Sulfur Storage Pit Maintenance Allowance),
 - NSR 16658/TV 16702 (S-237 Increase source test due date),
 - NSR 16839/TV 16897 (S-6 and S-66 exemption),
 - NSR 16837/TV 16838 (S-108 and S-124 are not pressurized tanks),
 - NSR 16879/TV 16880 (S-234 and S-235 have been replaced with storage

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X. Revision History

totes and contains low VP additive materials),

Renewal

- Revision 0 (Application No. 18288)
 - NSR 5846/TV19633 (VIP Crude Tanks, S-1047, S-1048, Condition 20820 later amended by NSR 16937/TV16933)
 - NSR 13009/TV 13244 (ULSD S-247, S-248, S-1036, S-1051, and S-1052)
 - NSR 15606/TV 15607, Crude Unit Baseline is for POC Main Stack emission limits, later amended by NSR 16937/TV 16933
 - NSR 15934/TV 19793 is for additional abatement to diversion tanks (A-65)
 - NSR 16302/TV 16327 is to increase throughput of PERC tank
 - NSR 16706/TV 16710 (S-237 monthly visible emissions monitoring)
 - NSR 16707/TV 16708 (S-173, S-43, S-44, and S-46 source test frequency)
 - NSR 16866/TV 17032 (ULSD mass limits)
 - NSR 16937/TV 19633 is for VIP Amendments, including the addition of new sources and permit conditions
 - NSR 16938/TV 16939 is for consolidation of wastewater treatment conditions
 - NSR 17681/TV 17877 (Hydrogen deaerator vent)
 - NSR 17876/TV 18750 (Butamer)
 - NSR 18164/TV 18165 (FCCU NSPS J CO & PM Consent Decree and NSPS J Flare, Fuel Gas Combustion Device SO2 per Consent Decree and NSPS J Update for A57 Thermal Oxidizer) and Alternate Monitoring Plans (AMPs) for NOX CEMS span and COMS location
 - NSR 18292/TV 18400 (Emergency diesel engine)
 - NSR 18582/TV18792 is for CARB Phase III ethanol throughput limit revisions to meet modified gasoline reformulation requirements
 - NSR 19634/TV 19636 is for reclassification of wastewater treatment sources
 - NSR 19826/TV 19897 is for corrections to applicability and monitoring requirements for Benzene Waste NESHAP (40 CFR Part 61, Subpart FF)
 - NSR 20304 is for the Gasoline Dispensing Facility EVR Phase II Upgrade
 - NSR None/TV 16840 is to combine throughput for group of tanks

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XI. GLOSSARY

1-Hour Period

Any continuous 60-minute period beginning on the hour

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

Calendar Day

Any continuous 24-hour period beginning at 12:00 AM or 0000 hours

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

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CEC CPM

California Energy Commission Compliance Program Manager

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.

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.

CPMS

Continuous parametric monitoring System

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

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dscm

Dry Standard Cubic Meter

DWT

Dead Weight Ton

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E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

ETP

Effluent Treatment Plant

Excluded

Not subject to any District regulations.

FCC

Fluid Catalytic Cracker

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPS), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FR

Federal Register

FRT

Floating Roof Tank (See EFRT and IFRT)

GDF

Gasoline Dispensing Facility

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XI. Glossary

GLM

Ground Level Monitor

grains

1/7000 of a pound

Graphitic

Made of graphite.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63.

H₂S

Hydrogen Sulfide

H₂SO₄

Sulfuric Acid

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

IFRT

An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

ISOM

Isomerization plant

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Lighter

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

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Long ton
2200 pounds

Major Facility
A facility with potential emissions of: (1) at least 100 tons per year of any regulated air pollutant, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MDEA
Methyl Diethanolamine

MFR
Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

Mo Gas
Motor gasoline

MOP
The District's Manual of Procedures.

MOSC
Mobil Oil Sludge Conversion (licensed technology)

MSDS
Material Safety Data Sheet

MTBE
methyl tertiary-butyl ether

NA
Not Applicable

NAAQS
National Ambient Air Quality Standards

NESHAPS
National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

NMHC
Non-methane Hydrocarbons

NMOC
Non-methane Organic Compounds (Same as NMHC)

NO_x
Oxides of nitrogen.

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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.)

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Particulate Matter

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

Process Unit

For the purpose of start-up and shutdown reporting, a process unit is defined as in 40 CFR Part 60 Subpart GGG: Process Unit means components assembled to produce intermediate or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

Precursor Organic Compounds (POCs):

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified

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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 NO_x concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NO_x compounds to nitrogen gas.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

SO₂ Bubble

An SO₂ bubble is an overall cap on the SO₂ emissions from a defined group of sources, or from an entire facility. SO₂ bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO₂ emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H₂S and other sulfur compounds in the RFG.

SO₃

Sulfur trioxide

Start-up

For reporting purposes only, a start-up shall be defined as any of the following; the removal of boundary blinds, first fire to a furnace, or the introduction of process feed to a unit. A start-up only occurs following a shutdown unless it involves a newly constructed process unit.

Shutdown

For reporting purposes only, a shutdown shall be defined as any of the following; there is no

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process feed to a unit, no furnace fires, or the boundary blinds are installed.

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Plan

TRS

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

Units of Measure:

bbbl	=	barrel
bhp	=	brake-horsepower
btu	=	British Thermal Unit
C	=	degrees Celcius
d	=	day
F	=	degrees Farenheight
f ³	=	cubic feet

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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

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

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