

Bay Area Air Quality Management District

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

Proposed Rev 5

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~~ John Hill,
Vice President and General Manager
(707) 745-7011724

Facility Contact

~~Todd M. Lopez~~ Donald W. Cuffel,
Environmental Manager
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Type of Facility: Petroleum Refining
Primary SIC: 2911
Product: Petroleum Refining

BAAQMD Engineering Division Contact:
Thu H. Bui

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

~~Signed by Jeff McKay for Jack P. Broadbent~~

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

~~December 20, 2010~~

Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS.....	3
II.	EQUIPMENT	<u>98</u>
III.	GENERALLY APPLICABLE REQUIREMENTS	<u>5356</u>
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS.....	<u>5659</u>
V.	SCHEDULE OF COMPLIANCE	<u>540529</u>
VI.	PERMIT CONDITIONS	<u>541529</u>
VII.	APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS	<u>674663</u>
VIII.	TEST METHODS	<u>915891</u>
IX.	PERMIT SHIELD.....	<u>928903</u>
X.	REVISION HISTORY	<u>932907</u>
XI.	GLOSSARY.....	<u>936911</u>
XII.	INDEX	<u>946920</u>

I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on ~~5/4/11~~7/19/06);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through ~~3/4/09~~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); and

SIP Regulation 2, Rule 6 – Permits, Major Facility Review (as approved by EPA through 6/23/95)

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

1. This Major Facility Review Permit was issued on December 20, 2010 and expires on December 19, 2015. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 19, 2015 and no earlier than December 19, 2014. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after December 19, 2014.** If the permit renewal has not been issued by December 19, 2014, 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

I. Standard Conditions

to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

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

I. Standard Conditions

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [June 30th or December 31st]. The report shall be submitted by [July 31st or January 31st]. Subsequent reports shall be for the following reporting periods: January 1st through June 30th and July 1st through December 31st, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

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

I. Standard Conditions

G. Compliance Certification

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

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

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

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
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)

I. Standard Conditions

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 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. Exceedance of a grandfathered limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (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.

I. Standard Conditions

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)

III. Generally Applicable Requirements

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 (Registration 76227), Superseded by 240 short tons/day (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers	58,400 short tons/year , Superseded by 87,600 short tons/year (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
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 (Registration 76227), Superseded by 240 short tons/day (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers	58,400 short tons/year , Superseded by 87,600 short tons/year (Condition # 20820, Part 42) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-3	Industrial Boiler—Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-101) To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76	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) To Be Removed From Service Upon	Burners: John Zink Co.	Burners (3): YS-22	40.75 ktherms/day fuel gas (169.8 MMBTU/hr) 21.45	14.9 MM therms/year fuel gas (169.8 MMBTU/hr) 7.8 MM therms/year CO flue gas (89.4

II. Equipment

Table II A - Permitted Sources

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S-#	Description	Make or Type	Model	Capacity	Throughput
	Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76			Ktherms/day CO flue gas (89.4 MMBTU/hr)	MMBTU/hr (Grandfathered Source)
S-5	Fluid cat cracker, FCC fresh feed, (FCCU REGENERATOR R-702)	Custom	N/A	77.2 kBBL/day fresh feed (actual), Superseded by 80 kBBL/day fresh feed, daily maximum (Condition 20820, Part 46) effective upon activation of Condition 20820, Part 21.a triggers	27.0 MMBBL/year fresh feed (actual 180 day average of 74.1 kbbbl/day) (Grandfathered Source), 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)
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 kttons/year (based on 70 tons/hour) (Grandfathered Source), Superseded by 876 kttons/year (based on

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
					2400 tons/day) (Condition 20820, Part 48) effective upon 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	180 kBBL/day, daily maximum (Condition 20820, Part 50) 135 kBBL/day permit limit	60.2 MMBBL/year (based on 165 kBBL/day, annual average) (Condition 20820, Part 50) (New Source Review) 49.3 MMBBL/year (135 kbb/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 Burners (3): QS-16	0.0360-084 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.1535 MMBTU/hour)	13.1430-66 ktherms/year (based on actual hourly maximum firing rate of 0.15-0.35 MMBTU/hour) Pilot gas only (Grandfathered Source) New Source Review)
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	8.76 ktherms/year (based on actual hourly max firing rate of 0.1 MMBTU/hour) Pilot gas only (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
				maximum firing rate of 0.10 MMBTU/hour)	
S-18	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (SOUTH FLARE, ST-2101)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-19	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (NORTH FLARE ST-2103)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-20	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, 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) 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	Custom	Burners: (980) Callidus LE-CARW-2 or John Zink LPMW 208-WC Ultra Low NOx (staged ULNB replacement)	147.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 614 MMBTU/hour)	106 MMtherms/365-days (combined w/S-22) (average of 605 MMBTU/hour per furnace) (Condition #10574-37) , Superseded by 53 MMtherms/365 days (average of 605

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
				(Regulation 9, Rule 10 Compliance Plan)	MMBtu/hr (Condition # 24197, Part 37) effective upon startup of S-1061 and S-1062 (New Source Review)
S-22	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-351) 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	Custom	Burners--(980): Callidus LE-CARW-2 or John Zinc LPMW 208-WC Ultra Low NOx (staged ULNB replacement)	147.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	106 MMtherms/365-days (combined w/S-21) (average of 605 MMBTU/hour per furnace) (Condition #10574-37) , 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)
S-23	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS OIL HYDROCRACKING, F-401)	Custom	Burners (20): John Zinc Ultra Low NOx COOLstars-15k Lox-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	Custom	Burners (20):	55.2 ktherms/day	20.15 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
	make gas (RMG) (PROCESS FURNACE, CAT FEED PREHEAT, F-701)		John Zink DBA-22	(daily capacity is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	(throughput is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour) (Grandfathered Source)
S-26	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, HCN HYDROFINING, F-801, 33 MMBTU/hr)	Custom	Burners (4): John Zink VPMR-20	7.92 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	2.89 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Grandfathered Source)
S-27	Waste gases; Other/not specified, Waste gases, Sodium hydroxide, 7 days/wk, 10 hrs/day, 52 wks/year (PFR REGENERATION FACILITIES)	Custom	N/A	22.56 MMSCF/day (based on 0.94 MMSCF/hour)	255.5 MMSCF/year (based on 70 kscf/hour for 10 hour/day – 365 day/year.) (Grandfathered Source)
S-29	Cooling tower, Fresh water, Water - process, other/not spec, (COOLING TOWER)	Deflon Anderson	5 DOP 4248-2615031 (5 cells)	85.5 MMgal/day circulation rate (based on 59.4 kgal/min)	31,220 MMgal/year (based on –85.5 MMgal/day circulation rate) (Grandfathered Source)
		Marley	2 cells		
S-30	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR PREHEAT, F-2901)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-31, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)

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

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
				MMBTU/hour) (9-10 Compliance Plan)	
S-36	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-701)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-37	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-702)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (New Source Review)
S-38	Removed from Service				
S-39	Removed from Service				
S-40	Commercial/Institutional Boiler, Natural gas, Refinery make gas (RMG) (Utility Package Boiler, SG-2301, 218MMBTU/hr Horizontal force)	CE, Inc. Burners: Coen	34VP-14W; Burners: Daf-42 Low NOx	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (Condition #9296 and 9-10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (New Source Review) and MTBE Phaseout Application 2035
S-41	Industrial Boiler - Other, Natural gas, Refinery make gas (RMG) (Steam Generator, SG-2302)	CE, Inc.	34VP-14W; Burners (2): Type SV	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (9-10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (Grandfathered Source)
S-42	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, TREAT GAS PREHTR, F-	Custom	Burner: John Zink Vyr-22	3.36 ktherms/day (daily capacity is based on an	0.1 MMtherms/year (Permit ID# 30330-2) (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-#	cription	Make or Type	Model	Capacity	Throughput
	1060}			demonstrated actual hourly maximum firing rate of 14.0 MMBTU/hour)	
S-43	Industrial Turbine (PROCESS GAS TURBINE, GT-401)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)
S-44	Industrial Turbine (PROCESS GAS TURBINE, GT-701)	GE	Frame Size 3	36.58 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 152.4 MMBTU/hour)	12.35 MMtherms/year throughput is based on a design (seasonal average temperature) maximum firing rate of 141.0 MMBTU/hour) (Grandfathered Source)
S-45	Industrial Turbine (PROCESS GAS TURBINE GT-702)	GE	Frame Size 5	78.6 ktherms/day (daily capacity is based on the maximum hourly firing rate of 327.5 MMBTU/hour)	28.7 MMtherms/year (throughput is based on the maximum annualized daily firing rate of 327.5 MMBTU/hour) consistent with Condition 20820, Part 46) (New Source Review)
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)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour)

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
				hourly maximum firing rate of 143.4 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 gas (RMG) (AIR HEATER, CKR AUX. BURNER, F-901)	John Zink	Burner: Z-38E	10.08 ktherms/day (capacity is based on a demonstrated actual hourly maximum firing rate of 42 MMBTU/hour)	Start up burner: No annual throughput limit is needed. (Grandfathered Source)
S-51	HCU Total Feed Sandfilter, FIL 410A	N/A	N/A	40.0 kb/day (same as S-1003); Superseded by 44.0 kBBL/day, <u>daily maximum</u> (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers	14.6 MMBBL/year (average of 40.0 kb/day), <u>annual average</u> (Grandfathered Source) ; (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers (New Source Review)
S-52	HCU Total Feed Sandfilter, FIL 410B	N/A	N/A	40.0 kb/day (same as S-1003); Superseded by 44.0 kBBL/day, <u>daily maximum</u> (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers	14.6 MMBBL/year (average of 40.0 kb/day) (Grandfathered Source) (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers (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-55	Storage, Refinery sour waste water, (TK. 2801 SOUR WATER STORAGE)	N/A	N/A		5.61 MMBBL/year (based on 15.4 Kbb/d) (Grandfathered Source)
S-56	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-401)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 - 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-57	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
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] (based on combined total of 172.1 kBBBL/day) (Grandfathered Source)
S-67	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
S-68	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-72	Deleted. Removed from permit in March 2007. Ownership transferred to Facility B5574.				
S-73	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1733, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 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] (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 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)

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
					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] (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-79	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1751, GASOLINE)	N/A	N/A	5040 kgal	49.275 MMBBL/year combined with S-80, 82, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-80	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1752, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 82, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
S-81	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1753, SLOP/GASOLINE)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-85, 103 and 104 (actual) (Grandfathered Source)
S-82	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1754, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 83, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
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,	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 80,

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

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
	mounted primary and secondary seals)				combined total of 35.7 kBBL/day) (Grandfathered Source)
S-92	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1771, JP4)	N/A	N/A	4620 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84, 86 & 97 (based on 135 kBBL/day) (Grandfathered Source)
S-97	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1776, JP4)	N/A	N/A	4620 kgal	62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-101	Tank, Internal Floating Roof, GOLD, Water/organics mixture Untreated Wastewater , 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 New Source Review)
S-103	Tank, Internal Floating Roof, GREEN, Water/organics mixture, Welded, Pan (TK-1793 SLOP)	N/A	N/A	676 kgal	8.21 MMBBL/year combined with S-81, 85, and 104 (actual) (Grandfathered Source)
S-104	Tank, External Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1795, SLOP)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-81, 85, and 103 (actual) (Grandfathered Source)
S-105	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1796, WWTP SLOP)	N/A	N/A	189 kgal	690.5 kBBL/year – Derived from Condition #8771 (Grandfathered Source)
S-106	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1797, SLOP)	N/A	N/A	76 kgal	548 kBBL/year (actual) (Grandfathered Source)
S-108	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1801, Additives)	N/A	N/A	16,800 gal	6.85 kBBL/year (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-110	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1803, HTA)	N/A	N/A	16,800 gal	260 kBBL/year (actual) (Grandfathered Source)
S-111	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1804, HTA)	N/A	N/A	71 kgal	5300 kBBL/year (actual) (Grandfathered Source)
S-112	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pan (TK-1805, TEL WASH)	N/A	N/A	336 kgal	547.5 kBBL/year (based on 1.5 kBBL/day) (Grandfathered Source)
S-113	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1806, LUBRISOL)	N/A	N/A	2520 gal	85 BBL/year (Grandfathered Source)
S-114	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1807, GASOLINE RED DYE)	N/A	N/A	2520 gal	85 BBL/year (actual) (Grandfathered Source)
S-115	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1808, GASOLINE ORANGE DYE)	N/A	N/A	2520 gal	55 BBL/year (actual) (Grandfathered Source)
	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) (Condition 1709, Part 1.b) (New Source Review)
S-131	Storage, Refinery sludge, (WASTE	N/A	N/A		29 MM gal/12-month

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
	WATER SLUDGE TANK TK-2069)				Derived from Condition #8771 (Grandfathered Source)
S-132	Storage, Caustic waste, (Tk 2711, SPENT CAUSTICS)	N/A	N/A		325 kBBL/year (Grandfathered Source)
S-133	Storage, Acid - waste, (TK 2712, SPENT ACID)	N/A	N/A		219 kBBL/year (average of 600 BBL/day) (Grandfathered Source)
S-134	Storage, Caustic waste, (TK 2713, SPENT CAUSTIC SURGE)	N/A	N/A		207 kBBL/year (Grandfathered Source)
S-143	Removed from service				
S-150	Refinery waste water, (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 gpm)	32.5 MMBBL/year combined with S-155 and 169 (average of 2600 gpm) (Grandfathered Source)
S-155	Refinery sour waste water, (WASTE WATER BIOXIDATION UNIT 2053B)	N/A	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-154 and 169 (average of 2600 gpm) (Grandfathered Source)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Throughput
S-156	Wastewater storage - ponds, (WASTE WATER RETENTION POND)	N/A	N/A		S-156 contains diverted process/stormwater. Very low concentrations of HC bearing compounds would be detected in this pond. For the most part these ponds are normally dry. No throughput limits apply (Grandfathered Source)
S-157	Storage, Sulfur, (SULFUR STORAGE PIT AT SULFUR PLANTS)	N/A	N/A	1147 short tons/day (average of 47.8 short tons/hour) Sulfur production, 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), 7 ft diameter (TK 2902)	N/A	N/A	2300 gal	30 kgal/12-month (PERC) (Condition #9584) (New Source Review)
S-159	Other petroleum products; Other, Lube oil, (S.G.701 & G.T.701 Lube Oil Reservoir)	Custom	N/A	410.4 kgal/day (average. of 17.1 kgal/hour)	149.8 MMgal/year (based on 410.4 kgal/day) (Grandfathered Source)
S-160	Other petroleum products; Other, Lube oil, 7 days/wk, 24 hours/day, 2 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C1031)	Custom	N/A	38.4 kgal/day (average. of 1.6 kgal/hour)	14.0 MMgal/year (based on 38.4 kgal/day) (Grandfathered Source)
S-161	Separator - oil/water, Waste water, (OILY WATER SEWER PIPELINE)	N/A	N/A		Throughput limit not prudent for sewer system which handles both oily water and

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
					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] (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		<u>111 kGal/2.2 kBBL/year</u> (Condition 22323) (New Source Review Grandfathered Source)
S-167	Other petroleum products; Other, Oil - non-fuel, other/not spec, 6.6 tons/hour max, 7 days/wk, 24 hours/day, 50 wks/year (Seal Oil Sparger for Compressor C-401)	N/A	N/A	25.1 kgal/day (average of 17.4 gpm)	9.15 MMgal/year (based on 25.1 kgal/day) (Grandfathered Source)
S-168	Other petroleum products; Other, Paraffins - C3+, 1.7 N/A/hour max, 7 days/wk, 24 hours/day, 50 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C-2901)	N/A	N/A	21.6 kgal/day (average of 15 gpm)	7.9 MMgal/year (based on 21.6 kgal/day) (Grandfathered Source)
S-169	Other process/not specified, Refinery waste water, 1.25 thou barrels/hour max, 7 days/wk, 24 hours/day, 52 wks/year (Third Bioxidation Unit)	Custom	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-154 and 155 (based on 89.1 kBBL/day) (New Source Review)
S-170	Removed from Service				
S-171	Removed from Service				
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	1.93 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 20 MMBTU/hour (HHV)) (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
				20MMBTU/hour (HHV) (Regulation 9, Rule 10 Compliance Plan)	
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, (Oil/Water/Sediment Separator)	WEMCO	Pacesetter	24 kBBL/day (permit limit)	8.76 MMBBL/year (permit limit) (New Source Review)
S-189	Separator - oil/water, Waste water, (Induced Static Flotation Cell)	L'eau Claire Int'l	75x	24 kBBL/day (permit limit)	8.76 MMBBL/year (permit limit) (New Source Review)
S-193	Other petroleum products; Other, Waste water (TK 2027, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-196 (total of 3000 gpm) (New Source Review)
S-194	Separator - oil/water, Waste water, (Oil/Water/Sediment Separator #2006)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-195	37.5 MMBBL/year combined with S-195 (total of 3000 gpm) (New Source Review)
S-195	Separator - oil/water, Waste water (Oil/Water/Sediment Separator #2056)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-194	37.5 MMBBL/year combined with S-194 (total of 3000 gpm) (New Source Review)
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-	37.5 MMBBL/year combined with S-197

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
				197	(total of 3000 gpm) (New Source Review)
S-199	Other petroleum products; Other, Oil/water mixture, (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-131))	N/A	N/A	79.5 kgal/day	29 MMgal/year Derived from Condition #8771 (New Source Review)
S-205	Other petroleum products; Other, Waste water (Surge Tank #2026)	N/A	N/A		37.5 MMBBL/year combined with S-206 (total of 3000 gpm) (New Source Review)
S-206	Other petroleum products; Other, Waste water (Surge Tank #2076)	N/A	N/A		37.5 MMBBL/year combined with S-205 (total of 3000 gpm) (New Source Review)
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/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 Ethanol service.	N/A	"Dry-break" nozzles		6,620 trucks/12-month (Condition #9296) (New Source Review)
S-210	Tank, Internal Floating Roof, - UN, Ethanol, Welded (TK-1820)	N/A	N/A	630 kgal	1,303 kBBL ethanol/rolling 12-month (Condition #9296) (New Source Review)
S-211	Alkylate Debutanizer T-4302 (in former MTBE unit)	N/A	N/A	22.8 kBBL/day alkylate (limit based on S-1007)	8.32 MMBBL/year (based on 22.8 kBBL/day alkylate)

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
				capacity.)	(New Source Review) and MTBE Phaseout Application 2035
S-220	Combustion, Furnace - Other, Refinery make gas (RMG) (F-4460 Hot Oil Furnace)	Custom	N/A	84.24 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum rate of 351 MMBTU/hour) (9-10 Compliance Plan)	28.908 MMtherms/365-day (Condition #10574, 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/Heartcut/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 SCRs, 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 SCRs, 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	N/A	N/A	480 short tons/day, daily maximum (Condition 20820, Part 44) 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	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		<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		<34 hours/year reliability-related activities (Grandfathered Source)
S-242	Emergency Diesel Engine for Dock Firewater Pump (P-2607B)	Cummins	NT855-F3, 340 HP		<34 hours/year reliability-related activities (Grandfathered Source)
S-243	Emergency Diesel Engine for Control Room Standby Power (DG-5101)	Detroit Diesel	Series 92, Model 8163-7405, 1095 HP		<20 hours/year reliability-related activities (Condition 24375, Part 1) (New Source Review)
S-247	F-5401 Reactor Charge Heater, ULSD Unit	Burners: Callidus	CUBL-W	21.95 MMBtu/hr (Condition 22949, Part 16)	192,282 MMBTU/year (365 day consecutive period) (Condition 22949, Part 16) (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-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 24309, Part 1) (New Source Review)
S-252	<u>Diesel Engine Driving Fire Pump for Raw Water Break Tank TK-2401</u>	<u>Caterpillar</u>	<u>Model C18, 600 BHP</u>		<u>< 50 hours/year reliability-related activities (Condition 24310, Part 5) (New Source Review)</u>
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, <u>daily maximum</u> (Condition 20820, Part 53) effective upon activation of Condition 20820, Part 21.a triggers	14.6 MMBBL/year fresh feed (40.0 kBBL/day, annual average) (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 (Condition 20820, Part 55); effective upon activation of	12.739 MMBBL/year feed (annual average of 34.9 kBBL/day); Superseded by 14.5 MMBBL/year feed (based on 39.8 kBBL/day) (Condition 20820, Part 55); effective upon activation of Condition

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 21.a triggers	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 gas (RMG), (HYDROGEN PLANT)	N/A	N/A	164 MMscf/day combined product hydrogen from both A and B trains (CFP duty permit limit), Superseded by 190 MMscf/day, daily maximum combined product hydrogen from A	59,900 MMscf/year combined product H2 (164 MMscf/day) (Grandfathered Source), 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

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
				or B train and S-1062 (Condition 20820, Part 57) upon startup of S-1062 Hydrogen Plant	57), upon startup of S-1062 Hydrogen Plant (New Source Review)
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, Superseded by 7 kBBL/day feed (Condition 20820, Part 59), effective upon activation of Condition 20820, Part 21.a triggers	1.825 MMBBL/year (based on 5.0 kBBL/day), 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 (New Source Review)
S-1013	Tank, Pressure, YELLOW, Hexane, Organic liquid -other/not spec, (Dimersol Unit - (D2720) EADC 10.0 kgal Tank)	N/A	N/A	10 kgal	2.84 kBBL/year (design pump limit) (New Source Review)
S-1014	Feedstock; Other/not specified, (Cat Light Ends Process Unit)	N/A	N/A	90.0 kBBL/day total feed (design limit)	32.8 MMBBL/year total feed (90.0 kBBL/day) (Grandfathered Source)
S-1020	Distillation - other, Refinery feedstock -other/not spec, 100 thou barrels/day max, (Heartcut Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1021	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 100 thou barrels/day max, (Heartcut Saturation Unit)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1022	Distillation - other, Refinery feedstock -other/not spec, 100 thou barrels/day max, (Cat. Reformer T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
S-1023	Distillation - other, Refinery feedstock -other/not spec, 100 thou	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100

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
	barrels/day max, (Cat. Naphtha T-90 Tower)				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 & S-1031) (New Source Review)
S-1034	Deisobutanizer, Butamer Unit (T-4801)	N/A	N/A	100.5 kBBL/day-, daily average IC4 production rate (Condition 24080, Part 3) (Condition 20820, Part 36)	36,500 1,825 kBBL/year IC4 production rate (Condition 24080, Part 3) (based on 100 kBBL/day, daily average)(Condition 20820, Part 36) (New Source Review)(New Source Review)
S-1035	Reactor Effluent Stripper, Butamer Unit (T-4802)	N/A	N/A	N/A – Capacity of S-1035 represented by Deisobutanizer, Butamer Unit, S-1034 (Condition 24080, Part 3) 100 (Condition 20820, Part 36)	N/A – Capacity of S-1035 represented by Deisobutanizer, Butamer Unit, S-1034 (Condition 24080, Part 3) 36,500 kBBL/year (based on 100 kBBL/day, daily average)(Condition

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
					20820, Part 36 (New Source Review) (New Source Review)
S-1036	Stripper Tower, ULSD Unit (T-5401)	Pressure Vessel, Tower	N/A	25 kBBL/day, daily average (Condition 22949, Part 20), 100 kBBL/day (Condition 20820, Part 36)	9.1 MMBBL/year (based on 25 kBBL/day, daily average) (New Source Review)
S-1047	Tank, External Floating Roof, Crude Oil (TK-1707)	N/A	N/A	27,300 kgals	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) (New Source Review)
S-1048	Tank, External Floating Roof, Crude Oil (TK-1708)	N/A	N/A	27,300 kgals	62.6 MM MMBBL/year, combined with S-57 through S-62 at Facility B5574, and S-1047 (based on 171.5 kBBL/day, annual average) (Condition 20820, Part 32) (New Source Review)
S-1049	Reactor, N-Butane Conversion, Butamer Unit (R-4803A)	N/A	N/A	N/A – Capacity of S-1049 represented by Deisobutanizer, Butamer Unit, S-1034 (Condition 24080, Part 3) 100 kBBL/day, daily average (Condition 20820, Part 36)	N/A – Throughput of S-1049 represented by Deisobutanizer, Butamer Unit, S-1034 (Condition 24080, Part 3) 36,500 kBBL/year (based on 100 kBBL/day, daily average) (Condition 20820, Part 36) (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
					New Source Review
S-1050	Reactor, N-Butane Conversion, Butamer Unit (R-4803B)	N/A	N/A	N/A – Capacity of S-1049 represented by Deisobutanizer, Butamer Unit, S-1034 (Condition 24080, Part 3) 100 kBBL/day, daily average (Condition 20820, Part 36)	N/A – Capacity of S-1049 represented by Deisobutanizer, Butamer Unit, S-1034 (Condition 24080, Part 3) 36,500 kBBL/year (based on 100 kBBL/day, daily average)(Condition 20820, Part 36) (New Source Review) (New Source Review)
S-1051	Diolefin Reactor, ULSD Unit (R-5401)	Pressure Vessel, Reactor	N/A	25 kBBL/day, daily average (Condition 22949, Part 21), 100 kBBL/day (Condition 20820, Part 39)	9.1 MMBBL/year (based on 25 kBBL/day, daily average) (New Source Review)
S-1052	Hydrotreating Reactor, ULSD Unit (R-5402)	Pressure Vessel, Reactor	N/A	25 kBBL/day, daily average (Condition 22949, Part 21), 100 kBBL/day (Condition 20820, Part 39)	9.1 MMBBL/year (based on 25 kBBL/day, daily average) (New Source Review)
S-1058	Feedstock. Other/not specified, (Virgin Light Ends Process Unit)	N/A	N/A	65 kBBL/day	19.7 MMBBL/year total feed (54 kBBL/day) (Grandfathered Source)
S-1059	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-105)	N/A	NA	529 MMBtu/hr	4,634,400 MMBtu/year (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)

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-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)
S-1063	Alkylation Hydrogenator Guard Beds, F-4301 and R-4301A/B	N/A	N/A	20 kBBL/day (limit based on A/N 22082)	7.3 MMBBL/year (limit based on A/N 22082) (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 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 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)
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 (Regulation 2-1-123.3.2)

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-94	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1773, JP5)	N/A	N/A	1050 kgal	Exempt (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 (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 (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 (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(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(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 (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 -other/not spec, (TK-1812, ANTI-ICE)	N/A	N/A	16,800 gal	Exempt-additive
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 (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 (Regulation 2-1-123.3.2)

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-142	Tank, Vertical Fixed Roof, YELLOW, Fresh Caustic, TK-103	N/A	N/A	7 kgal	Exempt (Regulation 2-1-123.2)
S-145	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1201, – MDEA ACCUMULATOR (20% SOLUTION))	N/A	N/A	47 kgal	Exempt (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 (TK2052, Thickener)	N/A	N/A		Exempt (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)
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

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
					(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
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
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)

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	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 (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
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 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 (Regulation 2-1-123.2.)
None	Cogeneration Plant Cooling Tower	N/A	N/A		Exempt (Regulation 2-1-

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
					128.4)

II. Equipment

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 SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 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 SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 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 SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber per Condition 20820, Part 76	3, 4, 5, 6, 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
4	D-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, 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
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, 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,	BAAQMD 6-1-301, SIP 6-301, BAAQMD 8-2-301 and BAAQMD Condition 1946624198.1, 2d (for S160 only)	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
		1058			
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
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, 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 24198.149466.2d (for S160 only)	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr
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, A-57, and A-65, and A68 averaged over one month (Reg-8-2); 95% recovery efficiency (NSPS Kb, NESHAPS FF)
<u>36</u>	<u>Carbon Canisters on WWTP Upstream Diversion Tanks</u>	<u>193, 196, 205, 206</u>	<u>60.112b(a)(3)(ii)</u>	<u>Mass emissions determined from flow meters and VOC continuous monitors</u>	<u>95% recovery efficiency</u>
<u>36</u>	<u>Carbon Canisters on WWTP Upstream Diversion Tanks</u>	<u>193, 196, 205, 206</u>	<u>61.349(a)(2)(ii)</u>	<u>Mass emissions determined from flow meters and VOC continuous monitors</u>	<u>95% recovery efficiency</u>
<u>36</u>	<u>Carbon Canisters on WWTP Upstream</u>	<u>193, 196, 205,</u>	<u>BAAQMD Condition</u>	<u>VOC or benzene</u>	<u><100 ppm VOC</u>

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	<u>Diversion Tanks</u>	<u>206</u>	<u>24245 (47)</u>		
37	Carbon Canisters on WWTP On-Site Equipment 8	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition 11879 (10); 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])	15 lb/day total NMHC from A-36, A-37, A-57, and A-65, and A68 averaged over one month (Reg. 8-2); <u>95% recovery efficiency (NESHAPS FF)</u>
<u>37</u>	<u>Carbon Canisters on WWTP On-Site Equipment</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>61.349(a)(2)(ii)</u>	<u>Mass emissions determined from flow meters and VOC continuous monitors</u>	<u>95% recovery efficiency</u>
<u>37</u>	<u>Carbon Canisters on WWTP On-Site Equipment</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>BAAQMD Condition 24245 (47)</u>	<u>VOC or benzene</u>	<u><100 ppm VOC</u>
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 10-9 (NSPS Db)	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)
46	C-1704A Vapor Recovery Compressor on TK-1741	227	BAAQMD 8-5-306, SIP 8-5-306 BAAQMD Condition 10574 [42] superseded by BAAQMD Condition 24197 [42] effective upon startup of S-1061 and S-1062 60.112b(a)(3) (ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
47	C-1704B Vapor Recovery Compressor on TK-1741	227	BAAQMD 8-5-306, SIP 8-5-306 BAAQMD Condition 10574 [42] superseded by BAAQMD Condition 24197 [42] effective upon startup of S-1061 and S-1062, 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	NOx/O2 CEM on GT/SG-702 stack	9 ppmv NOx, dry, 15% O2, 3-hr average.

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			16386 [1]		
52	Thermal De-NOx System for F-101 To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76	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 To Be Removed From Service Upon Startup of S-1059 and S-1060 PS Furnaces per Condition 20820, Part 76	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 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	232	BAAQMD 6-1-301, SIP 6-301, BAAQMD Condition 12727 (3)	Visible emissions from vacuum conveying system	Ringelmann No. 1 < 3 min/hr
55	Baghouse on ESP fines storage bin 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	233	BAAQMD 6-1-301, SIP 6-301, BAAQMD Condition 12727 (4)	Visible emissions from storage bin	Ringelmann No. 1 < 3 min/hr
56	Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section)	1, 2	9-1-307 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	BAAQMD Condition 23446 (1)	None	None
57	Thermal Oxidizer for WWTP On-Site equipment (A57)	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition 11879 (3), (4),	Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11879 (7); Temperature (1400F minimum outlet)	1400 F minimum outlet temperature to ensure NOx <= 25-50 ppmvd @ 315% O2 CO <= 50 ppmvd @ 3% O2
57	Thermal Oxidizer for WWTP On-Site equipment (A57)	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition 11879 (4)	Temperature (1400F minimum outlet)	CO <= 350 ppmvd @ 15% O2
57	Thermal Oxidizer for WWTP On-Site equipment (A57)	131, 150, 194, 195, 197, 198, 199, 200	61.349(a)(2)(i)(A)	Temperature (1400F minimum outlet) Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11879 (7), 61.354(c)(1)	1400 F minimum outlet temperature to ensure >95% destruction efficiency (NESHAPS FF)
57	Thermal Oxidizer for WWTP On-Site equipment (A57)	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition 11879 (5)	Temperature (1400F minimum outlet) Continuous temperature monitor on oxidizer outlet (BAAQMD Condition	1400 F minimum outlet temperature to ensure >98.5% destruction efficiency (Condition 11879(5)) [variable with inlet concentration]

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
				11879 [7]	
57	Thermal Oxidizer for WWTP On-Site equipment (A57)	194, 195	BAAQMD 8-8-302.3 SIP 8-8-302.3	Temperature (1400F minimum outlet)BAAQMD Condition 11879 [6],[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 equipmen (A57)†	197, 198	BAAQMD 8-8-307.2 SIP 8-8-307.2	Temperature (1400F minimum outlet)BAAQMD Condition 11879 [6],[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 (A57)	131, 150, 199, 200	BAAQMD 8-5-306 SIP 8-5-306	Temperature (1400F minimum outlet)(BAAQMD Condition 11879 [6],[7]	1400 F minimum outlet temperature to ensure >98.5 weight.% destruction efficiency, (>95% abatement efficiency for BAAQMD 8-5-306/SIP 8-5-306)
57	Thermal Oxidizer for WWTP On-Site equipment (A57)	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition 11879 (10), (12)	Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11879 [7]) Mass emissions determined from initial source test (BAAQMD Condition 11879 [12])	15 lb/day total NMHC from A-36, A-37, A-57, and A-65, and A-68 averaged over one month (Reg-8-2)
58	Selective Catalytic Reduction for SG-1032	237	BAAQMD Condition 16027 [12], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on SG-1032 stack (BAAQMD Condition 16027 [16]), 60.48b(b)(1)	9 ppm NOx, dry, 3% O2, 3-hr average, 0.1 lb/MMBTU (~84 ppmv NOx, 30-day average. NSPS Db, and 24-hr average. BAAQMD 10-9)
60	Selective Catalytic Reduction (SCR) System	1030, 1031	BAAQMD Condition 19177- (18a), (19b); NSPS Db: 60.44b(l)(1); BAAQMD 10-4 (NSPS Db)	NOx CEM (COND 19177-38; NSPS Db: 60.48b(b)(1); BAAQMD (NSPS Db)	Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 1 hr average. RFG/Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 3-hr average.
61	CO Oxidizing Catalyst System	1030, 1031	BAAQMD Condition 19177- (18b), (19d)	CO CEM (COND 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
62	Tail Gas Hydrogenation Unit B on SGU A/B Trains (Beavon Section), preparing tail gas for A-56	1, 2	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	157	BAAQMD Condition	None	None

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	Trains (Beavon Section), preparing tail gas for A-56		23446 (1)		
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	BAAQMD 8-5-306 SIP 8-5-306	Temperature (1400F minimum outlet) Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 (12))	1400-F minimum outlet temperature to ensure >95% recovery/destruction efficiency (BAAQMD 8-5-306)
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	40 CFR Part 60.112b(a)(3)(ii)	Temperature (1400F minimum outlet) Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 (12))	1400-F minimum outlet temperature to ensure >95% destruction efficiency (NSPS Kb)
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	40 CFR Part 61.349(a)(2)(i)(A)	Temperature (1400F minimum outlet) Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 (12)); 61.354(c)(1)	1400-F minimum outlet temperature to ensure >95% destruction efficiency (NESHAPS FF)
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	BAAQMD Condition 11880 (2), (3)	Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 (12)); Mass emissions determined from initial source test (BAAQMD Condition 11880 (3))	15 lb/day total NMHC from A-36, A-37, A-57 and A-65, and A-68 averaged over one month (Reg 8-2)
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	BAAQMD Condition 11880 (9), (10)	Temperature (1400F minimum outlet) Continuous temperature monitor on oxidizer outlet (BAAQMD Condition 11880 (12))	1400-F minimum outlet temperature to ensure NOx <= 50 ppmvd @ 15% O2 CO <= 350 ppmvd @ 15% O2
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	BAAQMD Condition 11880 (10)	Temperature (1400F minimum outlet)	CO <= 350 ppmvd @ 15% O2
65	Thermal Oxidizer for WW Diversion Area sources	193, 196, 205, 206	BAAQMD Condition 11880 (17)	Temperature (1400F minimum outlet)	Destruction efficiency [variable with inlet concentration]
66	Cyclone Separator for Coke Silos	8	BAAQMD 6-1-301, SIP 6-3-301	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
68	Thermal Oxidizer for WWTP On-Site equipment (A68)	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition 11879 (3)	Temperature (1400F minimum outlet)	NOx <= 50 ppmvd @ 15% O2
68	Thermal Oxidizer for WWTP On-Site equipment (A68)	131, 150, 194, 195, 197, 198,	BAAQMD Condition 11879 (4)	Temperature (1400F minimum outlet)	CO <= 350 ppmvd @ 15% O2

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
		<u>199, 200</u>			
68	<u>Thermal Oxidizer for WWTP On-Site equipment (A68)</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>61.349(a)(2)(i)(A)</u>	<u>Temperature (1400F minimum outlet)</u>	<u>>95% destruction efficiency</u>
68	<u>Thermal Oxidizer for WWTP On-Site equipment (A68)</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>BAAQMD Condition 11879 (5)</u>	<u>Temperature (1400F minimum outlet)</u>	<u>Destruction efficiency [variable with inlet concentration]</u>
68	<u>Thermal Oxidizer for WWTP On-Site equipment (A68)</u>	<u>194, 195</u>	<u>BAAQMD 8-8-302.3 SIP 8-8-302.3</u>	<u>Temperature (1400F minimum outlet)</u>	<u>>95% combined collection and destruction efficiency</u>
68	<u>Thermal Oxidizer for WWTP On-Site equipment (A68)</u>	<u>197, 198</u>	<u>BAAQMD 8-8-307.2 SIP 8-8-307.2</u>	<u>Temperature (1400F minimum outlet)</u>	<u>>70% combined collection and destruction efficiency -</u>
68	<u>Thermal Oxidizer for WWTP On-Site equipment (A68)</u>	<u>131, 150, 199, 200</u>	<u>BAAQMD 8-5-306 SIP 8-5-306</u>	<u>Temperature (1400F minimum outlet)</u>	<u>>95% abatement efficiency</u>
68	<u>Thermal Oxidizer for WWTP On-Site equipment (A68)</u>	<u>131, 150, 194, 195, 197, 198, 199, 200</u>	<u>BAAQMD Condition 11879 (10), (12)</u>	<u>Mass emissions determined from initial source test</u>	<u>15 lb/day total NMHC from A-36, A-37, A-57, A-65, and A68 averaged over one month</u>
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 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 or <u>approved AMPCPMS on FCCU/CKR Stack</u>	30% opacity < 6 min/hr
1047	Prescrubber/Regenerative Amine Scrubber	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 67	SO ₂ /O ₂ CEM on FCCU/CKR Stack	21.4 ppmv, dry, 3% O ₂ , 365-day average; 42.8 ppmv, dry, 3% O ₂ , 7-day average; 440 ppmv dry, 3% O ₂ , 1-calendar day average
1059	Selective Catalytic Reduction (SCR) System	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 66	NO _x /O ₂ CEM on FCCU/CKR Stack	42.8 ppmv, dry, 3% O ₂ , 365-day average; 85.6 ppmv, dry, 3% O ₂ , 7-day average, 150 ppmv, dry, 3% O ₂ , 1-calendar day average.
1060	Selective Catalytic Reduction (SCR) System	5, 6, 13, 50, 1059, 1060	BAAQMD Condition 20820, Part 66	NO _x /O ₂ CEM on FCCU/CKR Stack	42.8 ppmv, dry, 3% O ₂ , 365-day average; 85.6 ppmv, dry, 3% O ₂ , 7-day average, 150 ppmv, dry, 3% O ₂ ,

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
					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 & 62, 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, 1014, 1020, 1021, 1022, 1023, 1024, 1026, 1027, 1058	See Table IV-A8.1	1,200,000 lb/hr Capacity	Typically 98% destruction efficiency
S-19	North Flare	Backup abatement for A-13/26, which abates sources 9, 51, 52, 133, 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 15512.2 (±)	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	Vent POC emissions from deaerator vents	300 ppm and 15 lb/day total carbon, dry basis

II. Equipment

Table II C - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			Condition 15512.2 (±)	to S-40 and/or S-41 boilers, or to atmosphere	

III. Generally Applicable Requirements

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 (07/19/200605/04/2011)	N
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (03/04/200906/28/1999)	Y
BAAQMD · Regulation 2 · Rule 1	Permits, General Requirements (03/04/200807/19/2006)	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
SIP Regulation 2 · Rule 4	Permits, Emissions Banking (01/26/1999)	Y
BAAQMD · Regulation 2 · Rule 5	New Source Review of Toxic Air Contaminants (07/01/2005)	N
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

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 9	Permits, Interchangeable Emission Reduction Credits (06/15/2005)	N
BAAQMD · Regulation 3	Fees (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 · Rule 1	Particulate Matter; General Requirements (12/05/2007)	N
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)	Y
BAAQMD · Regulation 7	Odorous Substances (03/17/1982)	N
BAAQMD · Regulation 8 · Rule 1	Organic Compounds, General Provisions (06/15/1994)	Y
BAAQMD · Regulation 8 · Rule 2	Organic Compounds, Miscellaneous Operations (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 (07/17/2002)	N
SIP - Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (02/26/2002)	Y
BAAQMD · Regulation 10-1	NSPS Subpart A, General Provisions (02/16/2000/09/13/2010)	Y

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements
 (Not Requiring Routine Monitoring)**

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

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 (05/04/2011/07/19/2006)		
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 (03/04/2009/07/19/2006)		
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	

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
8-5-117	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	
8-5-328	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	NY	
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 <u>or with routine source test requirements in permit conditions</u>	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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
8-5-404	Certification	Y	
8-5-405	Certification Reports: Information Required	Y	
8-5-501	Records		
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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD · Regulation 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	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (09/13/201002/16/2000)		
10-1	Subpart A. General Provisions	Y	
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	General Provisions (09/13/201006/01/2006)		

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
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	
60.19	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 (09/13/2010/04/09/2004)		
61.01	Lists of Pollutants and Applicability of Part 61	Y	
61.02	Definitions	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.03	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	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Exemption for gaseous streams vented to fuel gas system	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(a)	Requirements for calculating Total annual benzene quantity from facility waste	Y	
61.342(b)	Standards: General; Compliance for facilities with TAB > 10Mg/year	Y	
61.342(c)(1)	Requirements for treating non-aqueous wastes (less than 10% water) for compliance with 61.342(e) compliance option.	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.	Y	
61.342(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option	Y	
61.342(e)(1)	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)	Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.342(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	Y	
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	
1.345(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)	Y	
61.350	Delay of repair	Y	
61.350(a)	Delay of repair; allowed if infeasible without shutdown	Y	
61.350(b)	Delay of repair; complete repairs before end of next unit shutdown	Y	
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))	Y	
61.355(a)(1)	Requirements for determining annual benzene quantity for aqueous wastes (greater than 10% water)	Y	
61.355(a)(2)	Calculation of total annual benzene quantity from facility waste	Y	
61.355(a)(3)	Requirements if annual benzene quantity is greater than 11 ton/yr	Y	
61.355(a)(6)	Benzene quantity from streams generated less than once per year	Y	
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	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
61.355(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	
61.356(b)(4)	Recordkeeping Requirements: Waste stream records for waste streams subject to 61.342(e) (Treat to 6 compliance option)	Y	
61.356(d)	Recordkeeping Requirements: Control equipment engineering design	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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
	61.347, and 61.349		
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(k)	Recordkeeping Requirements: Equipment complying with 61.351 or 61.352	Y	
61.357	Reporting Requirements	Y	
61.357(a)(1)	Annual Report [61.357(d)(2)] contents: Reporting of total annual benzene quantity from facility waste	Y	
61.357(a)(2)	Annual Report [61.357(d)(2)] contents: Table identifying each waste stream and whether controlled	Y	
61.357(a)(3)	Annual Report [61.357(d)(2)] contents: Information for uncontrolled streams	Y	
61.357(d)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr	Y	
61.357(d)(2)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Annual report	Y	
61.357(d)(5)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Annual report contents required	Y	
61.357(d)(6)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Quarterly inspection certification	Y	
61.357(d)(7)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Quarterly report	Y	
61.357(d)(7)(iii)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Quarterly report	Y	
61.357(d)(7)(iv)(A)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Quarterly report; Control device requirements; Thermal Oxidizer	Y	
61.357(d)(7)(iv)(I)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr; Quarterly report; Control device requirements; Carbon Adsorption	Y	
61.357(d)(8)	Reporting Requirements: Facilities with TAB greater than or equal to 10 Mg/yr or more total benzene in waste; Annual Report Summarizing Inspection Findings	Y	
61.357(e)	Notification of alternative standard (61.351 or 61.352)	Y	
61.357(f)	Reporting Requirements for equipment complying with 61.351 or 61.352	Y	
NESHAPS Title 40 CFR Part 63 Subpart A	General Provisions of MACT Standards (08/11/201104/20/2006)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63.1	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	
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) Requirements for Tanks Subject to 40 CFR Part 63, Subpart CC		
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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63.120(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 (06/23/2003/06/30/2010)		
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	
<u>63.640(h)(2)</u>	<u>Compliance date – Existing sources</u>	<u>Y</u>	
<u>63.640(h)(3)</u>	<u>Compliance date – Existing sources – exception for marine tank vessels</u>	<u>Y</u>	
<u>63.640(h)(4)</u>	<u>Compliance date – Existing sources – exception for existing Group 1 storage vessels</u>	<u>Y</u>	
<u>63.640(h)(6)</u>	<u>Compliance date – Existing sources – exception for heat exchange systems</u>	<u>Y</u>	
63.640(i)	Applicability and Designation of Affected Source-- <u>New Requirements for addition of new</u> petroleum refining process units <u>at existing sources-requirements</u>	Y	
63.640(j)	Applicability and Designation of Affected Source-- <u>Requirements for changes in Changes to</u> existing petroleum refining process units <u>at existing sources</u>	Y	
63.640(k)	Applicability and Designation of Affected Source-- <u>Requirements at existing sources Additional requirements for additions and changes in petroleum refining process units subject to either 63.640(i) or 63.640(j) new or changed sources</u>	Y	
63.640(l)	Applicability and Designation of Affected Source-- <u>Additions of equipment (i.e. process vents, storage vessels, etc) in Group 1 sources not subject to 63.640(i) or (k). Requirements for additions and changes that add Group 1 emission points but that are not subject to either 63.640(i) or 63.640(j)</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
63.640(m)	Applicability and Designation of Affected Source-- Requirements for cChanges causing Group 2 emission points to become Group 1 points	Y	
63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
63.641	Definitions:	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 63.655 and is exempt from (g)	Y	
63.647	Wastewater Provisions	Y	
63.647(a)	Wastewater Provisions	Y	
63.647(b)	Wastewater Provisions	Y	
63.647(c)	Wastewater Provisions	Y	
63.655	<u>Reporting and Recordkeeping Requirements</u>	<u>Y</u>	
63.655(a) 63.654(a)	Semi-Annual Reporting and Recordkeeping Requirements: <u>Wastewater Provisions</u>	Y	
63.655(c)	<u>Reporting and Recordkeeping Requirements: Equipment Leak Standards: Marine tank vessel loading operation standards</u>	<u>Y</u>	
63.655(d)	<u>Reporting and Recordkeeping Requirements: Equipment Leak Standards</u>	<u>Y</u>	
63.655(e) 63.654(e)	Semi-Annual Reporting and Recordkeeping Requirements: <u>Required Reports</u>	Y	
63.655(f)	<u>Reporting and Recordkeeping Requirements: Notice of Compliance Status Reports</u>	<u>Y</u>	
63.655(g) 63.654(g)	Periodic Reporting and Recordkeeping Requirements: <u>Periodic Reports</u>	Y	
63.655(h) 63.654(h)	Reporting and Recordkeeping Requirements--Other reports	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
63.655(i) 63.654(i)	Reporting and Recordkeeping Requirements--Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	<u>General Provisions Applicability to Subpart CC</u>	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		
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	
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	
40 CFR Part 98	Mandatory Greenhouse Gas Reporting	Y	
Subpart A	General Provisions	Y	
Subpart C	General Stationary Fuel Combustion Sources	Y	
Subpart Y	Petroleum Refineries	Y	
Subpart MM	Suppliers of Petroleum Products	Y	
CA Code of Regulation, Title 17, Subchapter 10, Article 2	Mandatory Reporting of Greenhouse Gas Emission	N	
BAAQMD Condition 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 4	Startup and shutdown notification (2-1-403)	N	
BAAQMD			

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
Condition 20762			
Part 1	Refinery vapor pressure limits for organic liquids. (8-5-117)	Y	
Part 2	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	

**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 (12/05/2007)		
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	
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	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)		

IV. Source Specific Applicable Requirements

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

Applicable Condition	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-307	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 (07/17/200212/15/2010)		
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)		
10-14	Subpart J. Standards of Performance for Petroleum Refineries	Y	
40 CFR Part 60 Subpart J	Standards of Performance for Petroleum Refineries (06/24/2008)	✘	
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 H2S, calculated as ppmv SO2, dry basis, at 0% excess air	Y	
60.105	Monitoring of emissions and operations	Y	
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 SO2 (dry basis, 0% excess air) and O2 concentrations (only necessary if O2 is more than 0.25%).	Y	
60.105(a)(6)(i)	CEM Span values are 450 ppm reduced sulfur and 25% O2.	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)	SO2 from Claus sulfur recovery plants – excess emissions definition	Y	
60.105(e)(4)(ii)	TRS 12-hour average, measured as SO2 by CEM, must not exceed 300 ppmv	Y	
60.106(a)	Reference method for performance test: Appendix A	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
60.106(f)	Compliance standard determination methodology for SO2 and H2S	Y	
60.106(f)(2)	Method 15 shall be used to determine the reduced sulfur and H2S concentrations	Y	
60.106(f)(3)	Oxygen measurement and correction per Method 3 or 3A	Y	
60.107(f)	Reporting and recordkeeping: semiannually reports due to Administrator within 30 days of six-month period.	Y	
60.107(g)	Certification statement required in semiannual report	Y	
NSPS Title 40 CFR Part 60 Appendix B			
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)	N	
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).		
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O2 emissions. Calculate reduced sulfur emissions as SO2, dry basis, at zero percent excess air	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
	(Table 31, Option 1, Item 2.b).		
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(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, 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	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
	automated bypass lines (Option 1) by submitting an Operations, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.		
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 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	

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
63.1572	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	
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	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
	emission limitation or work practice standard		
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			
Part 1	Provide APCO access to S-1 sulfur production data (Banked POC credits)	Y	
Part 3	S-1 tail gas incinerator feed restrictions (9-1-313.2, odors) (9-1-313.2, odors)	Y	
Part 4	S-1 tail gas treatment requirements (9-1-313.2, odors)	Y	
Part 5	Natural gas firing emission limits A-24 and A-62 (Offsets, Cumulative Increase)	Y	
Part 6	A-24 Reducing Gas Generator firing limits (Cumulative Increase, Toxics)	Y	
Part 7	Initial source test requirement for parallel operation of tail gas units (Compliance Determination, Cumulative Increase, Offsets)	Y	
Part 8	Annual NOx source test (Cumulative Increase, Offsets)	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
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.)	Y	
Part 10	Monitor and report all tail gas emissions	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)	Y	
Part 8	S-1 and S-2 Sulfur Plants annual grain loading source test (BAAQMD 6-1-330/SIP 6-330)	Y	
BAAQMD Condition 20820			Upon activation of Condition 20820, Part 21.a triggers
Part 42	Sulfur production limit of 240 short tons/day, daily maximum and 87,600 short tons/year (Cumulative increase, odors)	Y	
Part 43	Daily sulfur production records for each individual sulfur plant train (Recordkeeping)	Y	
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 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	
BAAQMD Condition 24245			
Part 36	NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Definition of SRPs (Consent Decree XII.A Paragraph 220(15))	Y	
Part 37	NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Affected Facilities, Comply with NSPS A and J (Consent Decree XII.A Paragraph 221)	Y	
Part 38	NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Monitor and Report Tail Gas Emissions (Consent Decree XII.A	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
	Paragraph 224)		
Part 39	NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – AMP for SRPs (Consent Decree XII.A Paragraph 225)	Y	
Part 40	NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Sulfur Pitt Emissions (Consent Decree XII.A Paragraph 226)	Y	
Part 41	NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Startup, Shutdown, and Malfunction Exemptions (Consent Decree XII.A Paragraph 227)	Y	

Table IV-A2
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
~~S-2 SULFUR RECOVERY UNIT (S-2 (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 0 (12/05/2007)		
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	
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	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	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 (12/15/201007/17/2002)		
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)		
10-14	Subpart A. Standards of Performance for Petroleum Refineries	Y	
40 CFR Part 60 Subpart J	Standards of Performance for Petroleum Refineries (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 H2S, calculated as ppmv SO2, dry basis, at 0% excess air	Y	
60.105	Monitoring of emissions and operations	Y	
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 SO2 (dry basis, 0% excess air) and O2 concentrations (only necessary if O2 is more than 0.25%).	Y	
60.105(a)(6)(i)	CEM Span values are 450 ppm reduced sulfur and 25% O2.	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)	SO2 from Claus sulfur recovery plants – excess emissions definition	Y	
60.105(e)(4)(ii)	TRS 12-hour average, measured as SO2 by CEM, must not exceed 300 ppmv	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.106(a)	Reference method for performance test: Appendix A	Y	
60.106(f)	Compliance standard determination methodology for SO2 and H2S	Y	
60.106(f)(2)	Method 15 shall be used to determine the reduced sulfur and H2S concentrations	Y	
60.106(f)(3)	Oxygen measurement and correction per Method 3 or 3A	Y	
60.107(f)	Reporting and recordkeeping: semiannually reports due to Administrator within 30 days of six-month period.	Y	
60.107(g)	Certification statement required in semiannual report	Y	
NSPS Title 40 CFR Part 60 Appendix B			
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)	✘	
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).		
63.1568(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1568(b)	Initial Compliance Demonstration with Emission Limitations and Work Practice Standards	Y	
63.1568(b)(1)	Install Continuous Monitoring System to measure and record hourly average concentration of reduced sulfur and O2 emissions. Calculate reduced sulfur emissions as SO2, dry basis, at zero percent excess air (Table 32, Option 1, Item 2.b).	Y	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

Table IV-A2
Source-Specific Applicable Requirements
Sulfur Plant, Related Sources
~~S-2 SULFUR RECOVERY UNIT (S-2 (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(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).	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	

IV. Source Specific Applicable Requirements

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 126			
Part 1	Provide APCO access to S-2 sulfur production data(9-1-313.2)	Y	
Part 3	S-2 tail gas incinerator feed restrictions (9-1-313.2)	Y	
Part 4	S-2 tail gas treatment requirements (9-1-313.2)	Y	
Part 5	Natural gas firing mass emission limits A-24 and A-62 (Offsets, Cumulative Increase)	Y	
Part 6	A-62 Reducing Gas Generator firing limits (Cumulative Increase, Toxics)	Y	
Part 7	Initial source test requirement for parallel operation of tail gas units (Compliance Determination, Cumulative Increase, Offsets)	Y	
Part 8	Annual NOx source test (Cumulative Increase, Offsets)	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.)		Y
Part 10	Monitor and report all tail gas emissions		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)		Y
Part 8	S-1 and S-2 Sulfur Plants annual grain loading source test (BAAQMD 6-		Y

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	1-330/SIP		
BAAQMD Condition 20820			in-activation of Condition 20820, Part 21.a triggers
Part 42	Sulfur production limit of 240 short tons/day, daily maximum and 87,600 short tons/year (Cumulative increase, odors)	Y	
Part 43	Daily sulfur production records for each individual sulfur plant train (Recordkeeping)	Y	
BAAQMD Condition 24198	replaces BAAQMD Condition 19466		in-activation of Condition 20820, Part 21.a triggers
Part 3	S-1, S-2, S-8, S-11 and S-176 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	
<u>BAAQMD Condition 24245</u>			
<u>Part 36</u>	<u>NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Definition of SRPs (Consent Decree XII.A Paragraph 220(15))</u>	<u>Y</u>	
<u>Part 37</u>	<u>NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Affected Facilities, Comply with NSPS A and J (Consent Decree XII.A Paragraph 221)</u>	<u>Y</u>	
<u>Part 38</u>	<u>NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Monitor and Report Tail Gas Emissions (Consent Decree XII.A Paragraph 224)</u>	<u>Y</u>	
<u>Part 39</u>	<u>NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – AMP for SRPs (Consent Decree XII.A Paragraph 225)</u>	<u>Y</u>	
<u>Part 40</u>	<u>NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Sulfur Pitt Emissions (Consent Decree XII.A Paragraph 226)</u>	<u>Y</u>	
<u>Part 41</u>	<u>NSPS Subparts A and J SO2 Emissions from Claus Sulfur Plants – Startup, Shutdown, and Malfunction Exemptions (Consent Decree XII.A Paragraph 227)</u>	<u>Y</u>	

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 (05/04/2011/07/19/2006)		
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	Particulate Matter, General Requirements(12/05/2007)		

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
Regulation 6			
Rule 4			
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	
6-1-611 [†]	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 [†]	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	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (12/15/2010/7/17/2002)		
Rule 10			
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	
9-10-502	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	

[†]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
9-10-505.1	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 (04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
BAAQMD Condition 11030			
Part 1	Definition of startup period (Cumulative Increase)	Y	
Part 2	Definition of shutdown period (Cumulative Increase)	Y	
Part 3	NOx concentration emission limit (BARCT, Cumulative Increase)	Y	
Part 4	Startup and shutdown recordkeeping (Cumulative Increase)	Y	
Part 6	NOx abatement requirements (Cumulative Increase)	Y	
Part 7	Refinery fuel gas plus CO annual firing rate limits (Cumulative Increase)	N	
BAAQMD Condition 19466			
Part 5a	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 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)	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% O ₂ , 365-day average, 779.9 tons/calendar year	Y	
Part 21.b.ii	—SO ₂ — 440 ppm @ 3% O ₂ , 365-day average, 6,132 tons/calendar year	Y	
Part 21.b.iii	—PM ₁₀ — 40 lb/hr, 115.4 tons/calendar year	Y	
Part 21.b.iv	—NMOC— 13.41 tons/calendar year	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.b.v	CO—35.2 ppm @ 3% O2, 365-day average, 214.5 tons/calendar year	Y	
Part 21.e	PM10 and NMOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	Y	
Part 21.d	Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)	Y	
BAAQMD Condition 22156			
Part 1	Continuous opacity monitoring for A-1, A-2, A-3, A-4, and A-5 (2-6-503)	Y	
Part 3	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 (07/19/2006/05/04/2011)		
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	

IV. Source Specific Applicable Requirements

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

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	
6-1-311 2	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	
6-311 2	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	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (12/15/201007/17/2002)		

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)

Rule 101			
9-10-110.6	Exemption: Sources that received an ATC subject to BACT for NOx after January 1, 1994	<u>N</u>	
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 9 – Rule 10	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>	
NSPS Title			
40 CFR Part 60			
Appendix B			
Performance Specification 2	SO2 Continuous Emission Monitoring Systems (06/13/2007)	<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, Parts 14 and 27)	<u>Y</u>	
BAAQMD Condition 20820			
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>	

IV. Source Specific Applicable Requirements

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

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	—NMOC— 13.41 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 NMOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	Y	
Part 21.d	Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)	Y	
Part 22	SO2 emission reduction banking (Banking)	Y	
Part 2.a	Total NMOC offsets for VIP projects constructed is 4.12 tpy.	Y	
Part 61	Abatement requirements and vapor flow limit for S-5, S-6, S-1059, and S-1060 (Cumulative increase)	Y	
Part 62	Fire only refinery fuel gas, CO gas and/or natural gas (BACT)	Y	
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 SCR's ((Toxics, BACT)	Y	
Part 63.e	Initial source test to demonstrate compliance with ammonia limit (Toxics, source tests)	Y	
Part 63.f	Surplus reduction adjustment for offset of shipping contingency (Offsets)	Y	
Part 63.g	Surplus reduction adjustment for SO2 offsets (Banking)	Y	

IV. Source Specific Applicable Requirements

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

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 NMOC 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, NMOC, 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	Annual <u>Quarterly</u> NMOC/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 (05/04/201107/19/2006)		
1-107	Combination of Emissions	<u>Y</u>	
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(12/05/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation per BAAQMD Regulation 1-520.5	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	N	

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
6-1-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	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	
6-302	Opacity Limitation per BAAQMD Regulation 1-520.5	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	Y	
6-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9 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 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	
40 CFR Part 60 Subpart A	General Provisions (9/13/201006/01/2006)	Y	
60.13(i)	Alternative monitoring procedures	Y	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)	Y	
60.102	Standard for Particulate Matter	Y	
60.102(a)(1)	Limit on particulate matter from catalyst regenerator (Compliance	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
	demonstration through Alternate Monitoring Plan for Site-Specific Test Plan in accordance with 60.13(i) approved by EPA January 10, 2007).		
60.102(a)(2)	Limit on opacity of gases from catalyst regenerator	Y	
60.103	Standard for Carbon Monoxide	Y	
60.103(a)	Limit on carbon monoxide emissions from catalyst regenerator	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(b)	Requirements for each affected fluid catalytic cracking unit catalyst regenerator:	Y	
60.104(b)(1)	With an add-on control device, maintain SO2 emissions to the atmosphere less than or equal to 50 ppmv	Y	
60.104(c)	Compliance determined daily on a 7-day rolling average basis	Y	
60.104(d)	A minimum of 22 valid days of data shall be obtained every 30 rolling successive calendar days	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(1)	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).	Y	
60.105(a)(2)	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).	Y	
60.105(a)(9)	Continuous SO2 concentration monitoring and recording requirement for fluid catalytic cracking unit catalyst regenerator	Y	
60.105(a)(9)(i)	The span value of the monitor shall be set at 50% of the maximum hourly potential SO2 emission concentration of the control device	Y	
60.105(a)(9)(ii)	The performance evaluations for this SO2 monitor under 60.13(c) shall use Performance Specification 2. Methods 6 or 6C and 3 or 3A shall be used for relative accuracy evaluations	Y	
60.105(a)(10)	Continuous O2 concentration monitoring and recording requirement at the outlet of the control device for the fluid catalytic cracking unit catalyst regenerator. The span shall be set at 10 percent.	Y	
60.105(a)(11)	The continuous SO2 and O2 concentration monitoring and recording systems shall be operated and data recorded during all periods 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
	operation including periods of startup, shutdown, or malfunction, except for CMS breakdowns, repairs, calibration checks, and zero and span adjustments.		
60.105(a)(12)	The following procedures shall be used to evaluate the continuous SO2 and O2 concentration monitoring and recording systems:	Y	
60.105(a)(12)(i)	Method 3 or 3A and Method 6 or 6C for the relative accuracy evaluations under the 60.13(e) performance evaluation	Y	
60.105(a)(12)(ii)	Appendix F, Procedure 1, including quarterly accuracy determinations and daily calibration drift tests	Y	
60.105(a)(13)	When complying with 60.104(b)(1), when emission data are not obtained because of CMS breakdowns, repair, calibration checks and zero and span adjustments, emission data will be obtained by using one of the following to provide emission data for a minimum of 18 hours per day in at least 22 out of 30 rolling successive calendar days:	Y	
60.105(a)(13)(i)	Test methods described in 60.106(k);	Y	
60.105(a)(13)(ii)	A spare CMS; or	Y	
60.105(a)(13)(iii)	Other approved monitoring system	Y	
60.105(c)	Average coke burn-off rate (Mg (tons) per hour) and hours of operation	Y	
60.105(e)	Determine and report periods of excess emissions. . Note: All averages, except for opacity, shall be determined as the arithmetic average of the applicable 1-hour averages (e.g., the rolling 3-hour average shall be determined as the arithmetic average of three contiguous 1-hour averages.	Y	
60.105(e)(1)	Excess opacity emission definition for 60.7(c)	Y	
60.106	Test Methods and Procedures	Y	
60.106(b)(3)	Coke burn-off rate calculation	Y	
60.106(g)	Each performance test conducted for determining compliance under 60.104(b) shall consist of all testing performed over a 7-day period using Method 6 or 6C and Method 3 or 3A. The arithmetic mean of the results of all tests shall be compared to the standard	Y	
60.106(h)(1)	Calculate each 1-hour average concentration (dry, zero percent O2, ppmv) of SO2 at the outlet as specified in 60.13(h) using the emission data collected under 60.105(a)	Y	
60.106(h)(2)	Calculate a 7-day average (arithmetic mean) concentration of SO2 using	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
	all of the 1-hour average concentration values obtained during sever successive 24-hour periods.		
60.106(h)(4)	Outlet concentrations of SO2 from control device for compliance with 50 ppmv standard, reported on a dry, O2-free basis, shall be calculated using the procedures outlined in 60.106(h)(1) and (2) for the outlet monitor only	Y	
60.106(h)(6)	Use specified equation for adjusting pollutant concentration to zero percent O2	Y	
60.106(k)	Test methods used to supplement CMS data to meet the minimum data requirements in 60.104(d)	Y	
60.106(k)(1)	When Method 6 is used, the sampling location is the same as those specified for the monitor	Y	
60.106(k)(2)	For Method 6, the minimum sampling time is 20 minutes and the minimum sampling volume is 0.02 dscm (0.71 dscf) for each sample. Samples are taken at approximately 60-minute intervals. Each sample represents a 1-hour average. A minimum of 18 valid samples is required to obtain on valid day of data.	Y	
60.107	Reporting and Recordkeeping Requirements	Y	
60.107(b)	If subject to 60.104(b), record and maintain the following information:	Y	
60.107(b)(1)	If subject to 60.104(b)(1):	Y	
60.107(b)(1)(i)	All data and calibrations from CMS located at outlet to the control device, including the results of the daily drift tests and quarterly accuracy assessments required under Appendix F, Procedure 1	Y	
60.107(b)(1)(ii)	Measurements obtained by supplemental sampling per 60.105(a)(13) and 60.106(k) for meeting minimum data requirements; and	Y	
60.107(b)(1)(iii)	The written procedures for the quality control program required by Appendix F, Procedure 1	Y	
60.107(b)(4)	Each 7-day rolling average compliance determination	Y	
60.107(c)	Submit a report except as provided by 60.107(d) including the following information:	Y	
60.107(c)(1)	Any 7-day period during which:	Y	
60.107(c)(1)(i)	The average concentration of SO2 on a dry, O2-free basis is above 50 ppmv, as measured by the CMS and as determined using the procedures specified under 60.106(h)	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
60.107(c)(2)	Any 30-day period in which the minimum data requirements specified in 60.104(d) are not obtained	<u>Y</u>	
60.107(c)(3)	For each 7-day period during which an exceedance has occurred:	<u>Y</u>	
60.107(c)(3)(i)	The date that the exceedance occurred;	<u>Y</u>	
60.107(c)(3)(ii)	An explanation of the exceedance;	<u>Y</u>	
60.107(c)(3)(iii)	Whether the exceedance was concurrent with a startup, shutdown, or malfunction of the fluid catalytic cracking unit or control system;	<u>Y</u>	
60.107(c)(3)(iv)	A description of the corrective action taken, if any.	<u>Y</u>	
60.107(c)(4)	If subject to 60.104(b)(1),	<u>Y</u>	
60.107(c)(4)(ii)	The dates for which and brief explanation as to why fewer than 18 valid hours of data were obtained for the outlet CMS	<u>Y</u>	
60.107(c)(4)(iii)	Identification of times when hourly averages have been obtained based on manual sampling methods;	<u>Y</u>	
60.107(c)(4)(iv)	Identification of the times when the pollutant concentration exceeded full span of the CMS; and	<u>Y</u>	
60.107(c)(4)(v)	Description of any modification to the CMS that could affect the ability of the CMS to comply with Performance Specifications 2 or 3.	<u>Y</u>	
60.107(c)(4)(v)(i)	Results of daily drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1	<u>Y</u>	
60.107(d)	For any periods during which SO2 or O2 emissions data are not available, submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation before and following the period of data unavailability	<u>Y</u>	
60.107(f)	Semi-annual compliance report	Y	
60.107(g)	Certification of 60.107(f) report	Y	
NSPS Title 40 CFR Part 60 Appendix B			
Performance Specification 1	Specifications and Test Procedures for Continuous Opacity Monitoring Systems in Stationary Sources (08/10/2000)	<u>Y</u>	
Performance Specification 2	SO2 Continuous Emission Monitoring Systems (06/13/2007)	<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
NSPS Title 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, Parts 14 and 27)	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, Item 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 opacity in accordance with 60.13(i) for AMP for CPMS alternate-COMS location on Main Stack a, approved by EPA February 18, 2009).	Y	
63.1564(a)(2)	Table 2 operating limits do not apply to units already subject to NSPS.	Y	
63.1564(a)(3)	Prepare Operation, Maintenance, and Monitoring Plan and operate in compliance with the plan	Y	
63.1564(a)(4)	Emission limitation and operating limits for organic HAP emissions do not apply during periods of planned maintenance preapproved by applicable permitting authority.	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, Item 1 Option 1, Item 2)- ((Compliance demonstration through AMP for CPMS).	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	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
	Monitoring Plan for Site Specific Test Plan in accordance with 60.13(i) approved by EPA January 10, 2007.		
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, Item 1 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 Compliance Status report.	Y	
63.1564(b)(7)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1564(c)	Continuous Compliance Demonstration with emission limitation and work practice standards	Y	
63.1564(c)(1)	Demonstration Continuous Compliance with Emission Limitation: For PM emission limit determine and record daily average coke burn-off rate and hours of operation for catalyst regenerator; and maintain PM emission rate below 1.0 lb/1,000 lbs of coke burn-off. For opacity comply with AMP for CPMS 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, Item 1 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	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
	applicable permitting authority.		
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 for CO demonstrated by AMP for CO and PM from FCCU regenerators approved by EPA on January 10, 2007 or continuous parameter monitoring is not required if emissions are vented to a boiler or process heater with a design heat input capacity of at least 44 MW.	Y	
63.1565(b)(1)(iii)	For catalytic cracking units not already subject to the CO NSPS: continuous monitoring emission monitoring or continuous parameter monitoring is not required if emissions are vented to a boiler or process heater in which all emissions are introduced into the flame zone.	Y	
63.1565(b)(5)	Demonstrate Initial Compliance with Work Practice Standard by submitting Operation, Maintenance, and Monitoring Plan as part of the Notification of Compliance Status report.	Y	
63.1565(b)(6)	Submit Notice of Initial Compliance Status containing the results of the initial compliance demonstration.	Y	
63.1565(c)	Continuous Compliance Demonstration with <u>CO</u> emission limitation <u>demonstrated by AMP for CO and PM from FCCU regenerators approved by EPA on January 10, 2007 and work practice standards</u>		
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	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
	1, Item 1)		
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	
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	

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
63.1571(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)	Install, operate, and maintain each continuous emission monitoring system in accordance with 63.1572(a)(1) through (a)(4)	<u>Y</u>	
63.1572(a)(2)	If you use a CEMS to meet the NSPS SO2 limit, conduct a performance evaluation according to 63.8 and Table 40.	<u>Y</u>	
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	
63.1573(d)	Request approval for monitoring of other process or control device operating parameters if:	<u>Y</u>	
63.1573(d)(2)	A combustion control device is used (boiler with heat capacity of at least 44 MW where vent stream is introduced into flame zone or scrubber) or scrubber is used	<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
63.1573(e)	Request to monitor alternative parameters – submit a request for review and approval to EPA including the following information:	Y	
63.1573(e)(1)	--A description of each affected source and parameters to be monitored	Y	
63.1573(e)(2)	--A description of methods used to demonstrate that parameter can be used for continuous compliance	Y	
63.1573(e)(4)	--Supporting calculations	Y	
63.1573(e)(5)	--Averaging time for alternative operating parameter	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)	Where CEM or COMS is used	N	
63.1575(f)	Additional information for compliance reports	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
63.1575(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	
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	
40 CFR Part 64	Compliance Assurance Monitoring (10/22/1997)		
64.2(a)	General Applicability	Y	
64.2(a)(1)	subject to an emission limitation or standard for regulated air pollutant	Y	
64.2(a)(2)	uses a control device to achieve compliance with emission limitation	Y	
64.2(a)(3)	has pre-control device potential to emit > major source threshold	Y	
64.2(b)(1)	Exemption emission limitations or standards	Y	
64.2(b)(1)(i)	emission limitation proposed after 11/15/1990	Y	
64.2(b)(1)(vi)	Title V permit specifies a continuous compliance determination method for emission limitation	Y	
BAAQMD Condition 19466	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		

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
Part 6	S-5 FCCU and S-6 Coker annual grain loading source test (BAAQMD 6-1-310/SIP 6-310)	Y	
Part 9	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	
Part 15	Opacity monitoring requirements (1-520)	Y	
BAAQMD Condition 20820			
Part 21	Emission limitations triggered by (Project implementation):	Y	
Part 21.a.ii	Operation of third air blower, or oxygen injection to FCCU (S-5) or Coker Burner (S-6)	Y	
Part 21.b	FCCU/CKR Scrubber and Main Stack emission limitations (Main Stack 3-year baseline)	Y	Upon activation of Condition 20820, Part 21.a triggers
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	NMOC — 13.41 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 NMOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	Y	
Part 21.d	Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)	Y	
Part 46	Daily maximum and annual average throughput limits for FCCU, S-5 (Cumulative increase)	Y	
Part 47	Throughput recordkeeping requirements for FCCU, S-5 (Recordkeeping)	Y	
Part 61	Abatement requirements and vapor flow limit for S-5, S-6, S-1059, and S-1060 (Cumulative increase)	Y	
BAAQMD Condition 24198	Supersedes BAAQMD Condition 19466		Upon activation of Condition 20820, Part 21.a triggers

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
Part 15	Opacity monitoring requirements (1-520)]	Y	
Part 17	FCCU/CKR Dump Stack P-69 water seal chambers - continuous level monitoring and recordkeeping requirements and opacity limit (Regulation 6-1-302, Regulation 1-441)	<u>Y</u>	
BAAQMD Condition 24239			
Part 1	Applicability to 40 CFR Part 60, Subpart J for CO, PM, and Opacity (Basis: Consent Decree VII Paragraph 96)	N	
Part 2	CO Emission Limit (Basis: Consent Decree Paragraph 94)	N	
Part 3	Particulate Matter Emission Limit (Basis: Consent Decree Paragraph 95)	N	
Part 4	Limits not applicable during startup, shutdown or malfunction (Basis: Consent Decree Paragraph 102)	N	
Part 5	Notification requirements not applicable (Basis: Consent Decree Paragraph 100)	N	
Part 6	Initial performance testing for particulate matter satisfied by compliance demonstration for 40 CFR Part 63, Subpart UUU (Basis: Consent Decree Paragraph 101)	N	
Part 7	Alternate Monitoring Plans for PM, opacity, and CO (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)	Y	
BAAQMD Condition 24245			
Part 13	SO2 Emission Reductions from FCCU – Install and operate a regenerative scrubber to control SO2 emissions and comply with limits no greater than 25 ppmvd, 365-day rolling average and 50 ppmvd, 7-day rolling average, both at 0% O2 (Basis: Consent Decree VI.B Paragraph 67)	<u>Y</u>	
Part 14	SO2 Emission Reductions from FCCU – SO2 CEMS requirement, comply with Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree VI.B Paragraph 90)	<u>Y</u>	
Part 15	SO2 Emission Reductions from FCCU – SO2 CEMS must be made available to EUP for life of Consent Decree (Basis: Consent Decree VI.B	<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
	Paragraph 92		
Part 16	SO2 Emission Reductions from FCCU – Submit site-specific SO2/TRS monitoring plan (Basis: Consent Decree VI.B Paragraph 93)	Y	
Part 17	CO, Opacity and Particulate Emissions From FCCU – Limit CO emissions from FCCU to 500 ppmvd (at 0% O2), one-hour average (Basis: Consent Decree VII Paragraph 94)	Y	
Part 18	CO, Opacity and Particulate Emissions From FCCU – Limit PM emissions from the FCCU to 1 lb/1000 lbs coke burned, one-hour average over three performance test runs (Basis: Consent Decree VII Paragraph 95)	Y	
Part 19	CO, Opacity and Particulate Emissions From FCCU – Except as specified in Paragraph, comply with the CO, opacity, and PM emission standards specified in Paragraphs 94 and 95 and all requirements of 40CFR60, Subparts A and J (Basis: Consent Decree VII Paragraph 96)	Y	
Part 20	CO, Opacity and Particulate Emissions From FCCU – Notifications per 40CFR60, Subparts A and J related to CO, opacity, and PM emissions from FCCU are not required (Basis: Consent Decree VII Paragraph 100)	Y	
Part 21	CO, Opacity and Particulate Emissions From FCCU – CO CEMS or EPA-approved AMP, CEMS data availability, comply with Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition), performance testing for PM satisfied by 40CFR63, Subpart UUU (Basis: Consent Decree VII Paragraph 101)	Y	
Part 22	CO, Opacity and Particulate Emissions From FCCU – CO, opacity, and PM limits do not apply during periods of startup, shutdown or malfunction of the FCCU or applicable CO or PM control equipment (Basis: Consent Decree VII Paragraph 102)	Y	
Part 23	CO, Opacity and Particulate Emissions From FCCU – COMS or approved AMP requirements, including compliance with all applicable requirements of 40CFR60, Appendix A and Appendix B (Basis: Consent Decree VII Paragraph 103)	Y	
Part 24	CO, Opacity and Particulate Emissions From FCCU – Submit to EPA an AMP for combined FCCU/Fluid Coker emissions (Basis: Consent Decree VII Paragraph 105)	Y	
Part 25	NSPS Applicability to SO2 Emissions from FCCU Regenerators – FCCU regenerator shall be subject to 40CFR60, Subparts A and J for SO2	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
	emissions (Basis: Consent Decree VIII Paragraph 107)		
Part 26	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to SO2 emissions from FCCU are not required (Basis: Consent Decree VIII Paragraph 108)	Y	
Part 27	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 CEMS requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree VIII Paragraph 109)	Y	
Part 28	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the FCCU or applicable SO2 control equipment (Basis: Consent Decree VIII Paragraph 110)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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	

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
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 (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-302	Opacity Limitation per BAAQMD Regulation 1-520.6	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.6	N	
6-1-502	Data, Records and Reporting per BAAQMD Regulation 1-520.6	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	
6-302	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-	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
	520.6		
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 (06/23/2003/06/30/2010)		
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	
64.2(a)(1)	subject to an emission limitation or standard for regulated air pollutant	Y	
64.2(a)(2)	uses a control device to achieve compliance with emission limitation	Y	
64.2(a)(3)	has pre-control device potential to emit > major source threshold	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(b)(1)	Exemption emission limitations or standards	Y	
64.2(b)(1)(vi)	Title V permit specifies a continuous compliance determination method for emission limitation	Y	
BAAQMD Condition 19466	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		
Part 6	S-5 FCCU and S-6 Coker annual grain-loading source test (BAAQMD 6-1-310/SIP 6-310)	Y	
Part 9	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	
Part 15	Opacity monitoring requirements (1-520)	Y	
BAAQMD Condition 20820			
Part 21	Emission limitations triggered by (Project implementation):	Y	
Part 21.a.ii	Operation of third air blower, or oxygen injection to FCCU (S-5) or Coker Burner (S-6)	Y	
Part 21.b	FCCU/CKR Scrubber and Main Stacks emission limitations (Main Stack 3-year baseline)	Y	Upon activation of Condition 20820, Part 21.a triggers
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	—NMOC—13.41 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 NMOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	Y	
Part 21.d	Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)	Y	
Part 22	SO₂ emission reduction banking (Banking)	Y	
Part 61	Abatement requirements and vapor flow limit for S-5, S-6, S-1059, and S-1060 (Cumulative increase)	Y	
BAAQMD Condition 24198	Supersedes BAAQMD Condition 19466		Upon activation of

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
			Condition 20820, Part 21.a triggers
Part 15	Opacity monitoring requirements (1-520)]	Y	
<u>Part 17</u>	<u>FCCU/CKR Dump Stack P-69 water seal chambers - continuous level monitoring and recordkeeping requirements and opacity limit (Regulation 6-1-302, Regulation 1-441)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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	

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
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	**
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	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
	Compliance		
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (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 (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	N	
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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, 307, or 404.3 effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307,306	N	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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	NY	
SIP Regulation 9 Rule 10	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	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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (09/13/2010)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	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	

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
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 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 337)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	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)	Y	
BAAQMD Condition 20820	For S-7 (F-103) Only		
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% O ₂ , 365-day average, 779.9 tons/calendar year	Y	
Part 21.b.ii	—SO ₂ — 440 ppm @ 3% O ₂ , 365-day average, 6, 132 tons/calendar year	Y	
Part 21.b.iii	—PM ₁₀ — 40 lb/hr, 115.4 tons/calendar year	Y	
Part 21.b.iv	—NMOC— 13.41 tons/calendar year	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
Part 21.b.v	CO - 35.2 ppm @ 3% O2, 365-day average, 214.5 tons/calendar year	Y	
Part 21.e	PM10 and NMOC Periodic Monitoring: Initial and annual source tests (FCCU/CKR and Main Stacks baseline monitoring, reporting)	Y	
Part 21.d	Annual emissions reporting on FCCU/CKR Scrubber and Main Stacks (Reporting requirements)	Y	
Part 34	Source testing for NOx, SO2, CO, NMOC, and PM10 (Cumulative increase)	Y	After startup of S-1059 and S-1060 PS Furnaces
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 3	NOx Box Operation (9-10-502)	Y	
Part 4	NOx Box Establishment (9-10-502)	Y	
Part 5	NOx Box Limits (9-10-502)	Y	
Part 6	NOx Box Deviations (9-10-502)	Y	
Part 7	Source tests for NOx and CO at maximum NOx (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	Records of source test data (9-10-504)	Y	
BAAQMD Condition 24198	Supersedes BAAQMD 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)		
BAAQMD			

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
Condition 24245			
Part 4	NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)	Y	
Part 5	Exemption from NSPS A and J notification requirements (Consent Decree § 120)	Y	
Part 6	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)	Y	
Part 7	CEMS accuracy test requirements (Consent Decree § 121)	Y	
Part 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	Y	
Part 9	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)	Y	
Part 10	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)	Y	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	Y	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	Y	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	Y	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not	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
	required (Basis: Consent Decree IX Paragraph 120)		
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25158	Applies to S-34 only		
Part 1	For S-34, S-35, S-40, S-41, use zero MMBTU firing rate and zero pounds NOx emissions to calculate Regulation 9-10-301 contribution during temporary shutdown periods (no demand). [Cumulative increase, Regulation 9-10]	Y	
Part 2	For S-34, S-35, S-40, S-41, use Regulation 9-10-301.4 to calculate Regulation 9-10-301 contribution during curtailed, startup, and shutdown operations. [Cumulative increase, Regulation 9-10]	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS 40CFR60.104(a)(1), Consent Decree Condition #24545)	Y	

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

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 (05/04/201107/19/2006)		
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	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	**
2-9-305	Conversion of an ERC to an IERC	N	*
2-9-306	Environmental Benefit Surcharge	N	**
2-9-401	IERC Application	N	*
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N	*

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-402	Complete IERC Banking Application	N	*
2-9-501	Monitoring and Record Keeping	N	**
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N	**
2-9-601	Emission Reduction Calculations—General Requirements	N	*
2-9-602	Emission Reduction Calculations—Baseline Throughput and Emission Rate	N	*
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N	*
2-9-604	Procedure to Convert an ERC to an IERC	N	*
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N	*
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (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 (12/15/2010/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or in Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	N Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 , <u>or 307</u>	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (<u>fuel flow meter</u>)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, <u>303</u> , 304, or 305, 307, or 404.3 or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, <u>307</u> , and/or 307	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	N	
SIP Regulation 9 Rule 10	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	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>9-10-601</u>	<u>Determination of Nitrogen Oxides</u>	<u>Y</u>	
<u>9-10-603</u>	<u>Compliance Determination</u>	<u>Y</u>	
<u>BAAQMD Regulation 10</u>	<u>Standards of Performance for New Stationary Sources incorporated by reference (09/13/2010)</u>		
<u>10-14</u>	<u>Subpart J. Standards of Performance For Petroleum Refineries</u>	<u>Y</u>	
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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))		
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 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 733)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	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)	Y	
BAAQMD Condition 21233			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502) (applies to S-24 only)	Y	
Part 3	NOx Box Operation (9-10-502)	Y	
Part 4	NOx Box Establishment (9-10-502)	Y	
Part 5	NOx Box Limits (9-10-502)	Y	
Part 6	NOx Box Deviations (9-10-502)	Y	
Part 7	-Source tests for NOx and CO at maximum NOx (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522) (applies to S-24 only)	Y	
Part 10	Records of source test data (9-10-504)	Y	
BAAQMD Condition 24198	Supersedes BAAQMD Condition 19466		
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)		
BAAQMD Condition 24245			
Part 4	NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)	Y	
Part 5	Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)	Y	
Part 6	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)	Y	
Part 7	CEMS accuracy test requirements (Consent Decree § 121)	Y	
Part 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	Y	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	Y	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	Y	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60,	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)		
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25158	Applies to S-35 only		
Part 1	For S-34, S-35, S-40, S-41, use zero MMBTU firing rate and zero pounds NOx emissions to calculate Regulation 9-10-301 contribution during temporary shutdown periods (no demand). [Cumulative increase, Regulation 9-10]	Y	
Part 2	For S-34, S-35, S-40, S-41, use Regulation 9-10-301.4 to calculate Regulation 9-10-301 contribution during curtailed, startup, and shutdown operations. [Cumulative increase, Regulation 9-10]	Y	
BAAQMD Condition 25342			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS 40CFR60.104(a)(1), Consent Decree Condition #24545)	Y	

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, General Requirements (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	

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

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 (05/04/201107/19/2006)		
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 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	**
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	Particulate Matter, General Requirements (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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann 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 (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	N 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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, or 307, or 404.3 effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307 6	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	N Y	
SIP Regulation 9 Rule 10	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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (09/13/2010)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	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	
60.104(a)(4)	Monitor H2S in fuel gases before being burned in any fuel gas combustion device	Y	
60.104(a)(4)(iv)	Exemption from monitoring for fuel gas streams that are inherently low in sulfur content	Y	
60.104(a)(4)(iv)(D)	Fuel gas streams that are demonstrated to be low-sulfur according to the procedures of 60.104(b)	Y	
60.104(b)	Demonstration that a fuel gas stream combusted in a device subject to 60.104(a)(1) is inherently low in sulfur is exempt from monitoring requirements of 60.104(a)(4) until there are changes in operating conditions or stream composition	Y	
60.104(b)(1)	Submit a written application to EPA for the exemption from monitoring. The application must include:	Y	
60.104(b)(1)(i)	A description of the fuel gas stream to be considered, including piping diagrams and the affected fuel gas combustion device to be considered;	Y	
60.104(b)(1)(ii)	A statement that there are no crossover or entry points for sour gas to be introduced;	Y	
60.104(b)(1)(iii)	An explanation of the conditions that ensure low amounts of sulfur in the fuel gas stream at all times;	Y	
60.104(b)(1)(iv)	Test results demonstrating that the sulfur content is < 5 ppmv for a minimum of 2 weeks of daily monitoring (14 grab samples) for frequently operated fuel gas streams using detector tube type of measurement; and	Y	
60.104(b)(1)(v)	A description of how the sampling data compares to the typical range of H2S concentration.	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(b)(2)	The effective date of the exemption is the date of submission of the information required in 60.104(b)(1). (Exemption request with supporting information submitted to EPA on April 21, 2011)	Y	
60.104(b)(3)	No further action is required unless refinery operating conditions change in a way that affects the exempt fuel gas stream. If such a change occurs, comply with the following procedures:	Y	
60.104(b)(3)(i)	If the operation change results in sulfur content that is still within the range of concentration submitted in the original application, conduct an H2S on a grab sample and record the results as proof that concentration is still within the range.	Y	
60.104(b)(3)(ii)	If the operation change results in a sulfur content that is outside the range of concentrations submitted in the original application and the owner elects not to submit new information to support an exemption, begin H2S monitoring using daily stain sampling and within 180 days, begin sampling according to 60.104(a)(1) or (a)(2). During daily stain sampling an exceedance of 162 ppmv is an exceedance of the 3-hr H2S concentration limit. Determine a rolling 365-day day average using daily data with an average H2S concentration of 5 ppmv used for days prior to operation change.	Y	
60.105	Monitoring of emissions and operations	Y	
60.105(b)	Exemption for inherently low sulfur fuel gas streams	Y	
60.105(b)(1)	Application for exemption from monitoring submitted to US EPA on December 31, 2010, with supplement on April 21, 2011	Y	
60.105(b)(2)	Effective date of exemption from monitoring inherently low sulfur fuel gas stream is date of submission of application for exemption	Y	
60.105(b)(3)	No further action required unless refinery operating conditions change in such a way that affects the fuel gas stream/system.	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	To be superseded by BAAQMD Condition 24198 upon activation of		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 19466	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)	Y	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 3	NOx Box Operation (9-10-502)	Y	
Part 4	NOx Box Establishment (9-10-502)	Y	
Part 5	NOx Box Limits (9-10-502)	Y	
Part 6	NOx Box Deviations (9-10-502)	Y	
Part 7	-Source tests for NOx and CO at maximum NOx (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	Records of source test data (9-10-504)	Y	
BAAQMD Condition 24198	Supersedes BAAQMD 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)		
BAAQMD Condition 24245			
Part 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	Y	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	Y	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	Y	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O compliance date is 12/31/2010) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS 40CFR60.104(a)(1), Consent Decree Condition #24545)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A78.1
Source-Specific Applicable Requirements
Acid Gas Flare
S-16 (ST-2101AG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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 6 Rule 1	Particulate Matter, General Requirements (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 Emissions	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 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 12-11	Flare Monitoring at Petroleum Refineries (06/04/03)		
12-11-401	Flare Data Reporting Requirements	N	

IV. Source Specific Applicable Requirements

Table IV -- A78.1
Source-Specific Applicable Requirements
Acid Gas Flare
S-16 (ST-2101AG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 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 (06/24/2008)		
60.100(b)	Subpart J not applicable: Constructed/modified before 6/11/1973	Y	
BAAQMD Condition 20806	Permit Conditions for S-16, S-18, and S-19		
Part 3	Flaring event definition and inspection requirements (2-6-409.2)	Y	
Part 4	Flaring event visible inspection procedures (BAAQMD 6-1-301/SIP 6-301, 2-1-403)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A78.1
Source-Specific Applicable Requirements
Acid Gas Flare
S-16 (ST-2101AG)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	Flaring event visual inspection requirements (2-6-403)	Y	
Part 6	Flaring event recordkeeping requirements (2-6-501; 2-6-409.2)	Y	
BAAQMD Condition 24245			
Part 38	NSPS Subparts A and J SO2 Emissions from Flaring – Acid Gas Flare Exemption (Consent Decree XII.A Paragraph 224)	<u>Y</u>	

Table IV - A87.2
Source-Specific Applicable Requirements
South Flare
S-18 (ST-2101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	

IV. Source Specific Applicable Requirements

Table IV - A87.2
Source-Specific Applicable Requirements
South Flare
S-18 (ST-2101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
6-305	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 Emission	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 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	

IV. Source Specific Applicable Requirements

**Table IV - A87.2
 Source-Specific Applicable Requirements
 South Flare
 S-18 (ST-2101)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
60.101(e)	Definition for process upset gas	Y	
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)(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	
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)	Y	
Part 4	Flaring event visible inspection procedures (BAAQMD 6-1-301/SIP 6-301, 2-1-403)	Y	
Part 5	Flaring event visual inspection requirements (2-6-403)	Y	
Part 6	Flaring event recordkeeping requirements (2-6-501; 2-6-409.2)	Y	
BAAQMD Condition 24245			
Part 1	NSPS J applicability. (Basis: Consent Decree §§ 231, 232, 238(a)(i))	Y	
Part 2	Operate and maintain a flare gas recovery system to control continuous or routine combustion in the flaring devices. (Basis: Consent Decree §§ 235(a))	Y	
Part 3	Exemption from 40 CFR Part 60.104(a)(1). (Basis: Consent Decree §§ 241)	Y	
Part 35	NSPS Subparts A and J SO2 Emissions from Flaring – Appendix N, Definition of Hydrocarbon Flaring Device (Consent Decree XII.A Paragraph 220.7)	<u>Y</u>	
Part 42	NSPS Subparts A and J SO2 Emissions from Flaring – Accept NSPS J Applicability (Consent Decree XII.A Paragraph 231)	<u>Y</u>	
Part 43	NSPS Subparts A and J SO2 Emissions from Flaring – Operate Existing Flare Gas Recovery System (Consent Decree XII.A Paragraph 232)	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - A87.2
Source-Specific Applicable Requirements
South Flare
S-18 (ST-2101)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 44	NSPS Subparts A and J SO2 Emissions from Flaring – Elect Compliance Method (Consent Decree XII.A Paragraph 235)	<u>Y</u>	
Part 45	NSPS Subparts A and J SO2 Emissions from Flaring – Certify Compliance Method and Accept NSPS J for All Appendix N Flares (Consent Decree XII.A Paragraph 239)	<u>Y</u>	
Part 46	NSPS Subparts A and J SO2 Emissions from Flaring – Process Upset Gases and Emergency Malfunction Exemptions (Consent Decree XII.A Paragraph 241)	<u>Y</u>	

Table IV -- A78.3
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, General Requirements (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	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 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 Emission	Y	
BAAQMD Regulation 12-11	Flare Monitoring at Petroleum Refineries (06/04/03)		

IV. Source Specific Applicable Requirements

Table IV -- A78.3
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
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 (06/24/2008)		
60.100(b)	Subpart J not Applicable: Constructed/modified before 6/11/1973	Y	
60.101(e)	Definition for process upset gas	Y	
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)(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	
<u>BAAQMD Condition 24245</u>			
Part 35	NSPS Subparts A and J SO2 Emissions from Flaring – Appendix N, Definition of Hydrocarbon Flaring Device (Consent Decree XII.A Paragraph 220.7))	Y	
Part 42	NSPS Subparts A and J SO2 Emissions from Flaring – Accept NSPS J Applicability (Consent Decree XII.A Paragraph 231)	Y	
Part 43	NSPS Subparts A and J SO2 Emissions from Flaring – Operate Existing Flare Gas Recovery System (Consent Decree XII.A Paragraph 232)	Y	
Part 44	NSPS Subparts A and J SO2 Emissions from Flaring – Elect Compliance Method (Consent Decree XII.A Paragraph 235)	Y	
Part 45	NSPS Subparts A and J SO2 Emissions from Flaring – Certify Compliance Method and Accept NSPS J for All Appendix N Flares (Consent Decree XII.A Paragraph 239)	Y	
Part 46	NSPS Subparts A and J SO2 Emissions from Flaring – Process Upset Gases and Emergency Malfunction Exemptions(Consent Decree XII.A Paragraph 241)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A89
Source-Specific Applicable Requirements
North Flare
S-19 (ST-2103)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	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 (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	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	

IV. Source Specific Applicable Requirements

Table IV -- A89
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
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
BAAQMD Regulation 12-11	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 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	

IV. Source Specific Applicable Requirements

Table IV -- A89
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
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 (06/24/2008)		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Flare 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	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	
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)	Y	
Part 4	Flaring event visible inspection procedures (6-1-301, 2-1-403)	Y	
Part 5	Flaring event visual inspection requirements (2-6-403)	Y	
Part 6	Flaring event recordkeeping requirements (2-6-501; 2-6-409.2)	Y	
BAAQMD Condition 24245			
Part 1	NSPS J applicability. (Basis: Consent Decree §§ 231, 232, 238(a)(i))	Y	
Part 2	Operate and maintain a flare gas recovery system to control continuous or routine combustion in the flaring devices. (Basis: Consent Decree §§ 235(a))	Y	

IV. Source Specific Applicable Requirements

Table IV -- A89
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 3	Exemption from 40 CFR Part 60.104(a)(1). (Basis: Consent Decree §§ 241)	N	
Part 35	NSPS Subparts A and J SO2 Emissions from Flaring – Appendix N, Definition of Hydrocarbon Flaring Device (Consent Decree XII.A Paragraph 220.7))	Y	
Part 42	NSPS Subparts A and J SO2 Emissions from Flaring – Accept NSPS J Applicability (Consent Decree XII.A Paragraph 231)	Y	
Part 43	NSPS Subparts A and J SO2 Emissions from Flaring – Operate Existing Flare Gas Recovery System (Consent Decree XII.A Paragraph 232)	Y	
Part 44	NSPS Subparts A and J SO2 Emissions from Flaring – Elect Compliance Method (Consent Decree XII.A Paragraph 235)	Y	
Part 45	NSPS Subparts A and J SO2 Emissions from Flaring – Certify Compliance Method and Accept NSPS J for All Appendix N Flares (Consent Decree XII.A Paragraph 239)	Y	
Part 46	NSPS Subparts A and J SO2 Emissions from Flaring – Process Upset Gases and Emergency Malfunction Exemptions(Consent Decree XII.A Paragraph 241)	Y	

Table IV -- A910
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 (05/04/201107/19/2006)		
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	

IV. Source Specific Applicable Requirements

**Table IV ~~— A910~~
 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
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	**
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 -- A910
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
2-9-601	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 (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 (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	NY	
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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	

IV. Source Specific Applicable Requirements

Table IV -- A910
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
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, <u>303</u> , 304, or 305, <u>306</u> , or <u>307</u> effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, <u>306</u> , and/or 307	N	
9-10-505.1	Reporting Requirements	N	
<u>9-10-505.2</u>	<u>Reporting Requirements</u>	<u>N</u>	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	<u>N</u>	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	<u>N</u>	
SIP Regulation 9 Rule 10	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	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>9-10-601</u>	<u>Determination of Nitrogen Oxides</u>	<u>Y</u>	
<u>9-10-603</u>	<u>Compliance Determination</u>	<u>Y</u>	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/3008)		
60.100(a)	Applicability: FCCU Catalyst Regenerators , Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Constructed/reconstructed after 6/11/1973 and before May 14, 2007	Y	
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	

IV. Source Specific Applicable Requirements

Table IV -- A910
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
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	
NSPS Title 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			
<u>Procedure 1</u>	<u>Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	<u>Y</u>	
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>	Y	
BAAQMD Condition 10574	Superseded by Condition 24197 Upon Startup of S-1061 and S-1062		
<u>Part 13</u>	<u>Daily average and 3-hr fuel gas H2S limit (Cumulative Increase, BACT, NSPS)</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>	
Part 17	Natural gas, LPG/pentane, and refinery fuel gas firing restrictions <u>and H2S concentration limit</u> (BACT, Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A910
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 18	NOx, CO, SO2, PM10 and POC mass emission limits (SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888)	Y	
Part 19	Fuel flow monitoring requirement [Regulation 9-10-502.2]	Y	
Part 20	Annual NOx, CO, POC, SO2, and PM10 mass emissions calculation method (BACT, Cumulative Increase)	Y	
Part 21	Ringelmann 1 visible emissions limitation [BAAQMD 6-1-301/SIP 6-301]	Y	
Part 22	Definition of startup and shutdown periods (Cumulative Increase)	Y	
Part 31	NOx concentration emission limit (Cumulative Increase, Offsets)	Y	
Part 32	CO concentration emission limits (Cumulative Increase)	Y	
Part 33	NOx abatement requirements (BAAQMD 9-10)	Y	
Part 37	Combined annual firing rate limit for S-21 and S-22 (Cumulative Increase, Offsets)	Y	
Part 38	Hourly firing rate limit (Cumulative Increase, Toxics)	Y	
Part 39	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 19329	To be deleted upon expiration of NOx IERCs		
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	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)	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)	Y	
BAAQMD			Upon

IV. Source Specific Applicable Requirements

**Table IV -- ~~A910~~
 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
Condition 20820			Startup of S-1061 and S-1062
Part 776	Shutdown S-21, S-22 (Offsets)	Y	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 8	CO source test requirements (9-10-502)	Y	
Part 9	-CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	-Records of source test data (9-10-504)	Y	
BAAQMD Condition 24197	Supersedes Condition 10574		Upon Startup of S-1061 and S-1062
Part 14	Refinery fuel gas TRS content limit (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)	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)	Y	
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 31	NOx concentration emission limit (Cumulative Increase, Offsets)	Y	
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	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A910~~
 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 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	
BAAQMD Condition 24245			
Part 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	<u>Y</u>	
Part 9	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)	<u>Y</u>	
Part 10	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)	<u>Y</u>	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	<u>Y</u>	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	<u>Y</u>	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	<u>Y</u>	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV -- A910
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
	must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)		
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1), Consent Decree Condition #24545)	Y	
Part 1d	H2S concentration limit, 100 ppmvd, daily, 24-hour calendar day average (Cumulative Increase, Offsets)	Y	
Part 2d	TRS concentration limit, 51 ppmvd, rolling 4-quarter average (Cumulative Increase, Offsets, BACT, and A/N 18888/S237)	Y	
Part 3a	H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)	Y	
Part 4a	H2S and TRS recordkeeping requirement (Offsets, BACT, and A/N 18888/237)	Y	
Part 5a	Quarterly reporting for H2S and TRS (Cumulative Increase, Offsets, BACT, and AN 18888/S237)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A1011
Source-Specific Applicable Requirements
Process Furnace
S-23 (F-401)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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 -- ~~A1011~~
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
2-9-305	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	Particulate Matter, General Requirements (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 (12/15/2010/07/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or Curtailed Operation	N	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1011~~
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
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	N 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 , or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow monitor)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, 305, 307 , and/or 404.3-306	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306 , and/or 307 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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 N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y N	
SIP Regulation 9 Rule 10	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	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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries 06/24/2008)		

IV. Source Specific Applicable Requirements

Table IV -- A1011
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
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007	Y	
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	
NSPS Title 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			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	<u>Y</u>	
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>	Y	
BAAQMD Condition 14318			

IV. Source Specific Applicable Requirements

Table IV -- ~~A1011~~
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 1	NMHC mass emission limit (BACT)	Y	
Part 2	NOx concentration emission limit (Cumulative Increase)	Y	
<u>Part 2A</u>	<u>Start-up, shutdown, low-firing, and curtailed operation allowances (Cumulative Increase, Offsets, Regulation 9-10-218)</u>	<u>Y</u>	
<u>Part 2B</u>	<u>NOx concentration emission limit for start-up, shutdown, low-firing, an curtailed operations (Cumulative Increase, Offsets, Regulation 9-10-218, Regulation 9-10-502)</u>	<u>Y</u>	
Part 3	NOx/O2 CEM requirements for S-23 (Cumulative Increase)	Y	
Part 4	Hourly and daily firing rate limits (Cumulative Increase)	Y	
<u>Part 5</u>	<u>Fuel gas H2S concentration limitation, NSPS 40 CFR Part 60, Subpart J. (Cumulative Increase, BAAQMD 10-14)</u>	<u>Y</u>	
BAAQMD Condition # 19329	To be deleted upon expiration of NOx IERCs		
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	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20920, Part 21.a triggers		
<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>Part 14</u>	<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)</u>	<u>Y</u>	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 8	CO source test requirements (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	Records of source test data (9-10-504)	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A1011~~
 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 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 24245			
Part 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	Y	
Part 9	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)	Y	
Part 10	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)	Y	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	Y	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	Y	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	Y	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent	Y	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1011~~
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
	Decree IX Paragraph 119		
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1), Consent Decree Condition #25245)	Y	
Part 3a	H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)	Y	

Table IV -- ~~A1112~~
Source-Specific Applicable Requirements
Process Furnaces
S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1112~~
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
1-522.2	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	**
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 -- ~~A1112~~
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
2-9-502	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 (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 (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or in Curtailed Operations	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	YN	
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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1112~~
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
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, or 307, or 404.3 effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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 N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y N	
SIP Regulation 9 Rule 10	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	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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (09/13/2010)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/3008)		
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	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1112~~
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
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 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 337)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	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)	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)	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	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1112~~
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
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 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 8	CO source test requirements (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	Records of source test data (9-10-504)	Y	
BAAQMD Condition 24245			
Part 4	NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)	Y	
Part 5	Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)	Y	
Part 6	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)	Y	
Part 7	CEMS accuracy test requirements (Consent Decree § 121)	Y	
<u>Part 8</u>	<u>NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)</u>	<u>Y</u>	
<u>Part 9</u>	<u>NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)</u>	<u>Y</u>	
<u>Part 10</u>	<u>NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)</u>	<u>Y</u>	
<u>Part 11</u>	<u>NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)</u>	<u>Y</u>	
<u>Part 12</u>	<u>NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)</u>	<u>Y</u>	
<u>Part 29</u>	<u>SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A1112~~
 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
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1), Consent Decree Condition #25245)	Y	
Part 3a	H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)	Y	

**Table IV - ~~A123.1~~
 Source-Specific Applicable Requirements
 Waste Heat Boilers
 S-36, S-48, S-56 (SG-701, SG-1031, SG-401)**

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 (05/04/201107/19/2006)		
1-107	Combination of Emissions	Y	
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (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 (12/15/201007/17/2002)		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD Condition 19466 (S-36 only)	is superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 12	S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	
BAAQMD Condition 24198 (S-36 only)	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 12	S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - A123.2
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 (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	
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	

IV. Source Specific Applicable Requirements

Table IV - A1~~23~~.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
9-9-604	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	is superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 11	-90 Annual NOx source test (Regulation 9-9-301.1)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 11	Annual NOx source test (Regulation 9-9-301.1)	Y	

Table IV - A1~~33~~.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
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IV. Source Specific Applicable Requirements

Table IV - A134.1
Source-Specific Applicable Requirements
Waste Heat Boiler
S-37 (SG-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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, General Requirements (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	

IV. Source Specific Applicable Requirements

Table IV - A134.1
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
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 (12/15/201007/17/2002)		
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	NOx concentration emission limit (Permanency of Contemporaneous Banking Credit, Offsets)	Y	
Part 4	NOx abatement requirement (Permanency of Contemporaneous Banking Credit, Offsets)	Y	
Part 5	Definition of startup and shutdown periods (Permanency of Contemporaneous Banking Credit, Offsets)	Y	
Part 6	NOX CEM requirements for S-37 and S-45 (enforceability of contemporaneous banking credit, offsets)	Y	
Part 7	NOx mass emission limit (Permanency of Actual Emissions Reduction for S-237)	Y	
Part 8	Recordkeeping requirements (Banked POC credits requirements)	Y	

IV. Source Specific Applicable Requirements

Table IV - A134.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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, General Requirements (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	

IV. Source Specific Applicable Requirements

Table IV - A134.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

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

IV. Source Specific Applicable Requirements

Table IV - A134.2
Source-Specific Applicable Requirements
Turbine
S-45 (GT-702)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	Y	
9-9-401	Certification, Efficiency	Y	
9-9-501	Monitoring and Recordkeeping Requirements	Y	
9-9-601	Determination of Emissions	Y	
9-9-603	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)	Y	
Part 3	NOx abatement requirement (Permanency of Contemporaneous Banking Credit, Offsets)	Y	
Part 5	Definition of startup and shutdown periods (Permanency of Contemporaneous Banking Credit, Offsets)	Y	
Part 6	NOx CEM requirements for S-37 and S-45 (enforceability of contemporaneous banking credit, offsets)	Y	
Part 8	Recordkeeping requirements (Banked POC credits requirements)	Y	

Table IV -- A1415
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 ·	General Provisions and Definitions (05/04/201107/19/2006)		

IV. Source Specific Applicable Requirements

Table IV — A1415
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
Regulation 1			
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	**

IV. Source Specific Applicable Requirements

Table IV – A1415
Source-Specific Applicable Requirements
Steam Generator
S-40 (SG-2301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-9-304	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	Particulate Matter, General Requirements (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	
BAAQMD · 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 (12/15/2010/07/17/2002)		

IV. Source Specific Applicable Requirements

Table IV – A1415
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
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	
9-10-301.4	Units in Start-up or Shutdown or in Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y N	
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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, 307, or 404.3 effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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 N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y N	
SIP Regulation 9 Rule 10	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	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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
NSPS Title	NSPS Subpart J for Petroleum Refineries (06/24/2008)		

IV. Source Specific Applicable Requirements

Table IV – A1415
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 Subpart J			
60.100(a)	Applicability:, FCCU Catalyst Regenerators Devices, and Fuel Gas Combustion Devices and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Constructed/modified after 6/11/1973 and before May 14, 2007	Y	
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	
NSPS Title 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			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	<u>Y</u>	
Procedure	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>	Y	

IV. Source Specific Applicable Requirements

**Table IV – A1415
 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
re 1			
BAAQMD Condition 9296			
Part D1	NOx abatement requirements (9-10, Offsets, Cumulative Increase)	Y	
Part D2	NOx concentration emission limit (Offsets)	Y	
Part D3	CO concentration emission limit (9-10, Cumulative Increase)	Y	
Part D4	TRS concentration emission limit (Offsets)	Y	
Part D6	TRS CEM recordkeeping (Banked POC credits)	Y	
Part D7	Hourly firing rate limit (Cumulative Increase, Toxics)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	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)	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)	Y	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	

IV. Source Specific Applicable Requirements

Table IV – A1415
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 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 8	CO source test requirements (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	Records of source test data (9-10-504)	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	
<u>BAAQMD Condition 25158</u>			
<u>Part 1</u>	<u>For S-34, S-35, S-40, S-41, use zero MMBTU firing rate and zero pounds NOx emissions to calculate Regulation 9-10-301 contribution during temporary shutdown periods (no demand). [Cumulative increase, Regulation 9-10]</u>	<u>Y</u>	
<u>Part 2</u>	<u>For S-34, S-35, S-40, S-41, use Regulation 9-10-301.4 to calculate Regulation 9-10-301 contribution during curtailed, startup, and shutdown operations. [Cumulative increase, Regulation 9-10]</u>	<u>Y</u>	
<u>BAAQMD Condition 24245</u>			
<u>Part 8</u>	<u>NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)</u>	<u>Y</u>	
<u>Part 9</u>	<u>NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)</u>	<u>Y</u>	
<u>Part 10</u>	<u>NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – A1415
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 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	<u>Y</u>	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	<u>Y</u>	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	<u>Y</u>	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	<u>Y</u>	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	<u>Y</u>	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	<u>Y</u>	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	<u>Y</u>	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	<u>Y</u>	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1), Consent Decree Condition #25245)	<u>Y</u>	
Part 2c	TRS concentration limit, 51 ppmvd, rolling-4 quarter average (Offsets)	<u>Y</u>	
Part 4a	H2S and TRS recordkeeping requirement (Offsets, BACT, and A/N 18888/237)	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV -- A1516
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/2011/07/19/2006)		
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		

IV. Source Specific Applicable Requirements

Table IV -- A1516
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
	** 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	Particulate Matter, General Requirements (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	

IV. Source Specific Applicable Requirements

Table IV -- A1516
Source-Specific Applicable Requirements
Steam Generator
S-41 (SG-2302)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 9 Rule 10·	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or in Curtailed Operation	N	
9-10-301.5	Units Temporarily 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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, 307, or 404.3 or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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 (04/02/2008)		
9-10-502	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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD	Standards of Performance for New Stationary Sources incorporated by		

IV. Source Specific Applicable Requirements

Table IV -- A1516
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
Regulation 10	reference (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)		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	Y	
60.100(b)	Applicability: Constructed/modified after 6/11/1973 and before May 14, 2007	Y	
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	
NSPS Title 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			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	<u>Y</u>	
Proc	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

Table IV -- A1516
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	(06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>		
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	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)	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)	Y	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 8	CO source test requirements (9-10-502)	Y	
Part 9	CO CEM requirement if 2 tests above 200 ppmv (9-10-502, 1-522)	Y	
Part 10	Records of source test data (9-10-504)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of

IV. Source Specific Applicable Requirements

Table IV -- A1516
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
			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	U
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 24245			
Part 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	Y	
Part 9	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)	Y	
Part 10	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)	Y	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	Y	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	Y	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	Y	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A1516
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 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25158			
Part 1	For S-34, S-35, S-40, S-41, use zero MMBTU firing rate and zero pounds NOx emissions to calculate Regulation 9-10-301 contribution during temporary shutdown periods (no demand). [Cumulative increase, Regulation 9-10]	Y	
Part 2	For S-34, S-35, S-40, S-41, use Regulation 9-10-301.4 to calculate Regulation 9-10-301 contribution during curtailed, startup, and shutdown operations. [Cumulative increase, Regulation 9-10]	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS 40CFR60.104(a)(1), Consent Decree Condition #24545)	Y	

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

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

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD- Regulation 1	General Provisions and Definitions (05/04/2011/07/19/2006)		
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 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 (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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (12/15/2010/07/17/2002)		
9-10-112	Limited Exemption, Low Fuel Usage (< 90,000 Therms/year), exempt from 9-10-301, 303, and 305 if 9-10-306 and 502.2 are satisfied	N	
9-10-306	Small Unit Requirements	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.2	Records for sources subject to 9-10-306.2	Y	
9-10-505	Reporting Requirements for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307	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	
9-10-502.2	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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))		
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 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)	Y	
BAAQMD Condition 24245			
Part 4	NSPS J applicability and SSM requirements for fuel gas combustion devices (Basis: NSPS Subparts A and J, Consent Decree §§ 12, 115, 118, and 122)	Y	
Part 5	Exemption from NSPS A and J notification requirements (Consent Decree §§ 120)	Y	
Part 6	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit (NSPS Subparts A and J, Consent Decree §§ 121)	Y	
Part 7	CEMS accuracy test requirements (Consent Decree § 121)	Y	
BAAQMD Condition 25242			

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>Part</u> <u>1</u> <u>b</u>	<u>H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS 40CFR60.104(a)(1), Consent Decree Condition #24545)</u>	<u>Y</u>	

~~Table IV – A16718~~
Source-Specific Applicable Requirements
Process Furnace
S-173 (F-902)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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 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	

IV. Source Specific Applicable Requirements

**Table IV – A16718
 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
1-602	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	
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	**
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	Particulate Matter, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	

IV. Source Specific Applicable Requirements

Table IV – A16718
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
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 (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or in Curtailed Operation	N	
9-10-301.5	Units Temporarily 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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, 307, or 404.3 or effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307 306	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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	

IV. Source Specific Applicable Requirements

**Table IV – A16718
 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
SIP Regulation 9 Rule 10	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	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>9-10-601</u>	<u>Determination of Nitrogen Oxides</u>	<u>N</u>	
<u>9-10-603</u>	<u>Compliance Determination</u>	<u>N</u>	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance for Petroleum Refineries	Y	
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants, (20 LTD)	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007	Y	
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	

IV. Source Specific Applicable Requirements

Table IV – A16718
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
NSPS Title 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			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	<u>Y</u>	
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>	Y	
BAAQMD Condition 254			
Part 1	S-173 NOx concentration emission limit (Cumulative Increase)	Y	
Part 2	F-1060 operating limit (Cumulative Increase)	Y	
Part 3	Annual NOx source test (Cumulative Increase)	Y	
Part 4	Emission banking application requirements (Cumulative Increase)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs		
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	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 10	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	

IV. Source Specific Applicable Requirements

Table IV – ~~A16718~~
 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 Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 3	NOx Box Operation (9-10-502)	Y	
Part 4	NOx Box Establishment (9-10-502)	Y	
Part 5	NOx Box Limits (9-10-502)	Y	
Part 6	NOx Box Deviations (9-10-502)	Y	
Part 7	-Source tests for NOx and CO at maximum NOx (9-10-502)	Y	
Part 10	-Records of source test data (9-10-504)	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	
<u>BAAQMD Condition 24245</u>			
<u>Part 8</u>	<u>NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOX emission levels (Basis: Consent Decree IV.A Paragraph 12)</u>	<u>Y</u>	
<u>Part 11</u>	<u>NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)</u>	<u>Y</u>	
<u>Part 12</u>	<u>NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)</u>	<u>Y</u>	
<u>Part 29</u>	<u>SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)</u>	<u>Y</u>	
<u>Part 30</u>	<u>SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – A16718
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
	devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)		
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	
BAAQMD Condition 25342			
Part 1b	H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS 40CFR60.104(a)(1), Consent Decree Condition #24545)	Y	

Table IV – A17819
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

IV. Source Specific Applicable Requirements

Table IV -- A17819
Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provision and Definitions (05/04/201107/19/2006)		
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	**

IV. Source Specific Applicable Requirements

**Table IV -- ~~A17819~~
 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
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	Particulate Matter, General Requirements (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 3	Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A17819~~
 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
9-3-601	Determination of Nitrogen Oxides	Y	
BAAQMD · Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (12/15/201007/17/2002)		
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	
9-10-301.4	Units in Start-up or Shutdown or in Curtailed Operation	N	
9-10-301.5	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y N	
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, or 307	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring (fuel flow meter)	N	
9-10-504	Records	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, 307, or 404.3 effective 7/17/2007, 9-10-303	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, and/or 307	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	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 N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y N	
SIP Regulation 9 Rule 10·	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	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	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD	Standards of Performance for New Stationary Sources incorporated by		

IV. Source Specific Applicable Requirements

Table IV -- ~~A17819~~
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
Regulation 10	reference (02/16/2000)		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
40 CFR Part 60 Subpart A	General Provisions (09/13/201006/01/2006)		
60.13(i)	Alternative monitoring procedures	Y	
NSPS Title 40 CFR Part 60 Subpart Db	NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (01/20/201111/16/2006)		
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 Times for Particulate Matter and Nitrogen Oxides	Y	
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 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 Values for NOx. (Compliance demonstration through Alternate Monitoring Plan for alternate NOx CEMS span approved by EPA February	Y	

IV. Source Specific Applicable Requirements

**Table IV – ~~A17819~~
 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
	5, 2009).		
60.48b(e)(3)	Span Values for NOx 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 – 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 (06/24/2008)		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	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	Y	

IV. Source Specific Applicable Requirements

Table IV -- A17819
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
	relief valve leaks or other emergency malfunctions		
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	
NSPS Title 40 CFR Part 60 Appendix B			
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			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>	Y	
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>	Y	
BAAQMD Condition 10574	Superseded by Condition 24197 Upon Startup of S-1061 and S-1062		
Part 4	CFP hydrocarbon flow control valves (BACT)	Y	
Part 5	CFP all other hydrocarbon valves greater than 2 inches (Basis: BACT)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A17819
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 7	CFP flanges installed in the piping systems (BACT, Offsets, Cumulative Increase, Toxics).	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment (Cumulative Increase)	Y	
Part 13	Refinery fuel gas H2S limits (Cumulative Increase, BACT, NSPS)	Y	
Part 14	Refinery fuel gas TRS content limit (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)	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)	Y	
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 19	Fuel flow monitoring requirement. [Regulation 9-10-502.2]	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 19329	To be deleted upon expiration of NOx IERCs		
Part 1	Firing rate limits for the ACP affected sources (2-9-303.4.1, Cumulative Increase)	N	

IV. Source Specific Applicable Requirements

Table IV -- A17819
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 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	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)	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)	Y	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305)	Y	
Part 2	O2 monitor requirements (Regulation 9-10-502)	Y	
Part 10	Records of source test data (9-10-504)	Y	
BAAQMD Condition 24197	Supersedes Condition 10574		Upon Startup of S-1061 and S-1062
Part 4	Hydrocarbon flow control valves (BACT)	Y	
Part 5	All other hydrocarbon valves greater than 2 inches (Basis: BACT)	Y	
Part 7	Flanges installed in the piping systems (BACT, Offsets, Cumulative Increase, Toxics)	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment (Cumulative Increase)	Y	
Part 14	Refinery fuel gas TRS content limit (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)	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)	Y	
Part 17	Natural gas, LPG/pentane, and refinery fuel gas firing restrictions and H2S	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A17819~~
 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
	concentration limit (BACT, Cumulative Increase)		
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	
<u>BAAQMD Condition 24245</u>			

IV. Source Specific Applicable Requirements

**Table IV -- ~~A17819~~
 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 8	NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)	Y	
Part 9	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)	Y	
Part 10	NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)	Y	
Part 11	NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)	Y	
Part 12	NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)	Y	
Part 29	SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)	Y	
Part 30	SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)	Y	
Part 31	SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)	Y	
Part 32	NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)	Y	
Part 33	NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)	Y	
Part 34	NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)	Y	

IV. Source Specific Applicable Requirements

Table IV -- A17819
Source-Specific Applicable Requirements
Process Furnace
S-220 (F-4460)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 25342			
<u>Part 1b</u>	<u>H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1), Consent Decree Condition #24545)</u>	<u>Y</u>	
<u>Part 1d</u>	<u>H2S concentration limit, 100 ppmvd, daily, 24-hour calendar day average (Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 2d</u>	<u>TRS concentration limit, 51 ppmvd, rolling 4-quarter average (Cumulative Increase, Offsets, BACT, and A/N 18888/S237)</u>	<u>Y</u>	
<u>Part 3a</u>	<u>H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)</u>	<u>Y</u>	
<u>Part 4a</u>	<u>H2S and TRS recordkeeping requirement (Offsets, BACT, and A/N 18888/237)</u>	<u>Y</u>	
<u>Part 5a</u>	<u>Quarterly reporting for H2S and TRS (Cumulative Increase, Offsets, BACT, and AN 18888/S237)</u>	<u>Y</u>	

Table IV -- A18920
Source-Specific Applicable Requirements
Steam Generator
S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provision and Definitions (05/04/201107/19/2006)		
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	

IV. Source Specific Applicable Requirements

Table IV – A18920
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
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 (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 ·	Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer		

IV. Source Specific Applicable Requirements

Table IV – A18920
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
Regulation 9 Rule 3	Operations (03/17/1982)		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
40 CFR Part 60 Subpart A	General Provisions (09/13/201006/01/2006)		
60.13(i)	Alternative monitoring procedures	Y	
NSPS Title 40 CFR Part 60 Subpart Db	NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (01/20/201111/16/2006)		
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	
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 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	

IV. Source Specific Applicable Requirements

Table IV – A18920
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
60.48b(e)	Complies with 60.13	Y	
60.48b(e)(2)	Span Values for NOx. (Compliance demonstration through Alternate Monitoring Plan for alternate NOx CEMS span approved by EPA February 5, 2009).	Y	
60.48b(e)(3)	Span Values for NOx 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 – 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 (06/24/2008)		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices,	Y	

IV. Source Specific Applicable Requirements

Table IV – A18920
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
	and Claus Sulfur Recovery Plants		
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 17, 2004	Y	
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	
NSPS Title 40 CFR Part 60 Appendix B			
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			
<u>Procedure 1</u>	<u>QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)</u>		Y
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

IV. Source Specific Applicable Requirements

Table IV – A18920
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
	(06/13/2007) <u>(excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by BAAQMD Condition 24245, Part 33)</u>		
BAAQMD Condition 16027			
1	Fugitive Emissions Components(BACT)	Y	
Part 3	Refinery fuel gas H2S content limit (Cumulative Increase, BACT)	Y	
Part 4	Refinery fuel gas TRS content limits. (BACT, Contemporaneous offsets for SO2 and PM10 emissions)		
Part 5	Refinery fuel gas H2S and TRS CEM requirements for S-237 (Cumulative Increase)	Y	
Part 6	H2S and TRS CEM recordkeeping and quarterly reporting (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)	Y	
Part 8	NOx, CO, SO2, PM10, and POC mass emission limits and emission factors (Cumulative Increase, Offsets)	Y	
Part 9	Fuel flow monitoring requirements(Monitoring and Records)	Y	
Part 10	Ringelmann No. 1 or 20% opacity limitation(BAAQMD 6-1-301/SIP 6-301)	Y	
Part 11	Definition of startup and shutdown periods (Cumulative Increase, offsets, operational allowances)	Y	
Part 12	NOx concentration emission limit (BACT, offsets)	Y	
Part 13	CO concentration emission limit (BACT)	Y	
Part 14	NOx abatement requirements (BACT)	Y	
Part 15	Ammonia slip emission limit (Cumulative Increase, Monitoring, Toxics)	Y	
Part 16	NOx/O2 CEM requirements for S-237 (Monitoring and Records)	Y	
Part 18	Annual firing rate limit (Cumulative Increase, Offsets)	Y	
Part 19	Daily firing rate limit (Cumulative Increase)	Y	
Part 22	Annual CO source test requirement (2-6-503)	Y	

IV. Source Specific Applicable Requirements

Table IV – A18920
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>QMD Condition 24245</u>			
<u>Part 8</u>	<u>NOx Emission Reductions from Heaters and Boilers – achieve system-wide NOx emission levels (Basis: Consent Decree IV.A Paragraph 12)</u>	<u>Y</u>	
<u>Part 9</u>	<u>NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” (Basis: Consent Decree IV.A Paragraph 13)</u>	<u>Y</u>	
<u>Part 10</u>	<u>NOx Emission Reductions from Heaters and Boilers – Appendix B “Initial Inventory” information included (Basis: Consent Decree IV.A Paragraph 14)</u>	<u>Y</u>	
<u>Part 11</u>	<u>NOx Emission Reductions from Heaters and Boilers – Comply with 9-10-301 and 9-10-403 (Basis: Consent Decree IV.A Paragraph 24)</u>	<u>Y</u>	
<u>Part 12</u>	<u>NOx Emission Reductions from Heaters and Boilers – Comply with 0.033 lbs NOx/MMBTU (12-month average) (Basis: Consent Decree IV.A Paragraph 25)</u>	<u>Y</u>	
<u>Part 29</u>	<u>SO2 and NSPS Requirements for Heaters and Boilers – Comply with 40CFR60, Subparts A and J for fuel gas combustion devices (Basis: Consent Decree IX Paragraph 115)</u>	<u>Y</u>	
<u>Part 30</u>	<u>SO2 and NSPS Requirements for Heaters and Boilers – Compliance date for applicability to 40CFR60, Subparts A and J for fuel gas combustion devices (except for heaters and boilers listed in Appendix O) and CEMS must comply with Appendix F except as specified in Paragraph 121 (Basis: Consent Decree IX Paragraph 118)</u>	<u>Y</u>	
<u>Part 31</u>	<u>SO2 and NSPS Requirements for Heaters and Boilers – An AMP may be submitted for NSPS Subpart J fuel gas device monitoring (Basis: Consent Decree IX Paragraph 119)</u>	<u>Y</u>	
<u>Part 32</u>	<u>NSPS Applicability to SO2 Emissions from FCCU Regenerators – Notifications per 40CFR60, Subparts A and J related to fuel gas combustion devices are not required (Basis: Consent Decree IX Paragraph 120)</u>	<u>Y</u>	
<u>Part 33</u>	<u>NSPS Applicability to SO2 Emissions from FCCU Regenerators – H2S/SO2 CEMS or approved AMP requirement, make data available to EPA, and comply with 40CFR60, Appendix A and Appendix F, excluding Sections 5.1.1, 5.1.3, and 5.1.4 which are superseded by this condition) (Basis: Consent Decree IX Paragraph 121)</u>	<u>Y</u>	
<u>Part 34</u>	<u>NSPS Applicability to SO2 Emissions from FCCU Regenerators – SO2 limits do not apply during periods of startup, shutdown or malfunction of the heaters and boilers or SO2 control equipment (Basis: Consent Decree IX Paragraph 122)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV -- A18920
Source-Specific Applicable Requirements
Steam Generator
S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 24261			
Part 1	Alternate Monitoring Plans for NOx (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)	Y	
<u>BAAQMD Condition 25342</u>			
<u>Part 1b</u>	<u>H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1), Consent Decree Condition #24545)</u>	<u>Y</u>	
<u>Part 1d</u>	<u>H2S concentration limit, 100 ppmvd, daily, 24-hour calendar day average (Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 2d</u>	<u>TRS concentration limit, 51 ppmvd, rolling-4 quarter average (Cumulative Increase, Offsets, and BACT)</u>	<u>Y</u>	
<u>Part 3a</u>	<u>H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)</u>	<u>Y</u>	
<u>Part 4a</u>	<u>H2S and TRS recordkeeping requirement (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 5a</u>	<u>Quarterly reporting for H2S and TRS (Cumulative Increase, Offsets, and BACT)</u>	<u>Y</u>	

Table IV -- A1920.121
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
~~S-240~~, S-241, S-242 (~~P-2401C~~, P-2602, P-2607B)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		
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	N	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A1920.121~~
 Source-Specific Applicable Requirements
 Emergency Standby Diesel IC Engines
~~S-240, S-241, S-242 (P-2401C, P-2602, P-2607B)~~**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Appraisal of Visible Emissions		
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303.1	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 Rule 8	Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (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	1/1/2012
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	
CCR, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines (05/19/2011)		
93115.3	Exemptions	N	
93115.3(n)	Operating limits in 93115.6(b)(3) do not apply to fire pumps driven by stationary CI engines and are only operated the number of hours necessary to comply with NFPA 25 testing requirements	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	

IV. Source Specific Applicable Requirements

Table IV -- ~~A1920.121~~
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
~~S-240, S-241, S-242 (P-2401C, P-2602, P-2607B)~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>93115.10</u>	<u>ATCM for Stationary CI Engines -- Recordkeeping, Reporting, and Monitoring Requirements</u>	<u>N</u>	
93115.10(fg)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
BAAQMD Condition 24310			
Part 1	Reliability-related testing limit ("Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n))	Y	
Part 2	Emergency standby engine operations (BAAQMD Regulation 9-8-330)	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(de)(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(fg))	Y	

Table IV -- ~~A1920.2~~
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
~~S-252 (P-2401C)~~

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD · Regulation 6 Rule 1</u>	<u>Particulate Matter, General Requirements (12/5/2007)</u>		
<u>6-1-303.1</u>	<u>Ringelmann No. 2 Limitation</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>	

IV. Source Specific Applicable Requirements

Table IV – A1920.2
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
S-252 (P-2401C)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303.1	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 Rule 8 ·	Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (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	
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	
CCR, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines (05/19/2011)		
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)(3)	Emission and operation standards	N	
93115.6(b)(3)(A)	Diesel PM Standard and Hours of Operation Limitations	N	

IV. Source Specific Applicable Requirements

Table IV – A1920.2
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
S-252 (P-2401C)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(b)(3)(A)(1)	General Requirements	N	
93115.6(b)(3)(A)(1)(b)	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	N	
93115.6(b)(3)(A)(2)	Operation for maintenance and testing allowed to be > 30 hrs/year when PM emitted at a rate < 0.40 g/bhp-hr	N	
93115.6(b)(3)(A)(2)(b)	Operation for maintenance and testing allowed to be 50 hrs/year when PM emitted at a rate < 0.15 g/bhp-hr	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(d)	Monitoring Equipment	N	
93115.10(d)(1)	Install non-resettable hour meter with minimum display of 9,999 hours	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/2006)		
60.4200	Applicability	Y	
60.4200(a)	Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(ii)	Manufactured as a certified NFPA fire pump engine after 7/1/2006	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(c)	Fire pump engines with displacement less than 30 L per cylinder must meet emission standards in Table 4 for all pollutants	Y	
60.4206	Meet Table 4 emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4207(c)	Option to petition EPA to use remaining non-compliant fuel	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	

IV. Source Specific Applicable Requirements

Table IV – A1920.2
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
S-252 (P-2401C)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer’s written instructions.	Y	
60.4211(e)	Operation for maintenance and readiness checks are limited to 100 hours per year. No limit on emergency use. Any operation other than for maintenance, readiness checks, or emergencies is prohibited.	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines	Y	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/10/2010) (S-252 only)		
63.6585	Applicability	Y	
63.6585(a)	Applicable to stationary RICE; and	Y	
63.6585(b)	Applicable to major source of HAPs	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(i)	Rating > 500 bhp located at major source of HAP emissions, constructed on or after 12/19/2002	Y	
63.6590(b)(1)	An affected source does not have to meet the requirements of this subpart and of subpart A except for initial notification per 63.6645(f) if:	Y	
63.6590(b)(1)(i)	The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 bhp located at a major source of HAP emissions	Y	
63.6600(c)	An emergency stationary RICE does not need to comply with the emission or operating limitations in this subpart	Y	
63.6645(f)	Content of initial notification requirements	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] (S-252 only)		
80.510(b)(1)	Sulfur content of diesel fuel:	Y	
80.510(b)(1)(i)	must not exceed 15 ppm, maximum	Y	
80.510(b)(2)	Cetane index or aromatic content must not exceed:	Y	
80.510(b)(2)(i)	A minimum cetane index of 40; or	Y	
80.510(b)(2)(ii)	A maximum aromatic content of 35%, volume	Y	

IV. Source Specific Applicable Requirements

Table IV – ~~A1920.2~~
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engines
S-252 (P-2401C)

<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 89 Subpart B</u>	<u>Emission Standards and Certification Procedures for New and In-Use Nonroad Compression-Ignition Engines [Incorporated by Reference – 60.4202(a)(2)]</u>		
<u>89.112(a)</u>	<u>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</u>	<u>Y</u>	
<u>89.113(c)(3)</u>	<u>Constant-speed engines are exempt from the smoke (opacity) emission standards</u>	<u>Y</u>	
<u>BAAQMD Condition 24310</u>			
<u>Part 5</u>	<u>Reliability-related testing limit ("Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b))</u>	<u>Y</u>	
<u>Part 6</u>	<u>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))</u>	<u>Y</u>	
<u>Part 7</u>	<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(d)(1))</u>	<u>Y</u>	
<u>Part 8</u>	<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(f))</u>	<u>Y</u>	

Table IV – ~~A201.122.1~~
Source-Specific Applicable Requirements
COGEN (Phase 1) Turbine S-1030 (GT-4901)

<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 Provision and Definitions (05/04/201107/19/2006)</u>		
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	

IV. Source Specific Applicable Requirements

**Table IV – ~~A201.122.1~~
 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
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, General Requirements (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	N	

IV. Source Specific Applicable Requirements

**Table IV – ~~A201.122.1~~
 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
	Appraisal of Visible Emission		
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	1/1/20 10
9-9-301.3	NOx Emission Limit for Mixtures of Fuels	N	1/1/20 10
9-9-301.4	Rebuttal Option for Alternative NOx Emission Limits	N	1/1/20 10
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	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	

IV. Source Specific Applicable Requirements

**Table IV — ~~A201.122.1~~
 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
9-9-401	Certification, Efficiency	Y	
9-9-601	Determination of Emissions	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
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: FCCU Catalyst Regenerators at Refineries, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants	Y	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Fuel gas H ₂ S 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 H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO ₂ 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 H ₂ S standard in 60.104(a)(1).	Y	
60.107(f)	Semi-annual compliance report	Y	
60.107(g)	Certification of 60.107f) 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	Y	

IV. Source Specific Applicable Requirements

**Table IV — ~~A201.122.1~~
 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
	conditions		
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	
6.0334(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			
Part 1	Offsets (NOx and POC)	Y	
Part 2	SO2 emission offsets, Curtailment Group, emission calculation methods, and quarterly reporting (SO2 offsets)	Y	
Part 6	NOx and CO emission limits (BACT)	Y	
Part 13	Refinery gas and natural gas firing restrictions (BACT for SO2 and PM10)	Y	
Part 14	Hourly firing rate limits (Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 15	Daily firing rate limit (Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 16	Annual firing rate limit (Offsets, Cumulative Increase, Modification)	Y	
Part 17	NOx and CO abatement requirements (BACT for NOx)	Y	
Part 18	Natural gas firing emission limits (BACT, PSD, and Toxic Risk Management	Y	

IV. Source Specific Applicable Requirements

**Table IV — ~~A201.122.1~~
 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
	Policy)		
Part 18(a)(1)	NOx concentration emission limit, natural gas firing (BACT for NOx when firing natural gas)	Y	
Part 18(b)	CO concentration emission limit, natural gas firing (BACT for CO when firing natural gas)	Y	
Part 18(c)	NH3 concentration emission limit, natural gas firing (Toxics)	Y	
Part 18(d)	POC mass emission limit, natural gas firing (BACT for POC when firing natural gas)	Y	
Part 18(e)	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)	PM10 grain loading emission limit, natural gas firing and pipeline quality natural gas restriction (BACT for PM10 when firing natural gas)	Y	
Part 19	Refinery fuel gas and natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 19(a)	NOx mass emission limit, refinery fuel gas and natural gas firing (BACT for NOx, Offsets)	Y	
Part 19(b)	NOx concentration emission limit, refinery fuel gas and natural gas firing (BACT for NOx)	Y	
Part 19(c)	CO mass emission limit, refinery fuel gas and natural gas firing (PSD for CO)	Y	
Part 19(d)	CO concentration limit, refinery fuel gas and natural gas firing (BACT for CO)	Y	
Part 19(e)	NH3 concentration limit, refinery fuel gas and natural gas firing (Toxics)	Y	
Part 19(f)	POC mass emission limit, refinery fuel gas and natural gas firing (BACT)	Y	
Part 19(g)	SO2 mass emission limit, TRS concentration limits, refinery fuel gas and natural gas firing (BACT)	Y	
Part 19(h)	PM10 mass emission limit, refinery fuel gas and natural gas firing (BACT for PM10)	Y	
Part 20	Sulfuric Acid Emissions (SAM) mass emission limit (PSD)	Y	
Part 22	Mass emission limits (Cumulative Increase, Offsets, PSD)	Y	
Part 22(a)	NOx, POC, SOx, CO, and PM10 mass emission limits (Cumulative Increase, Offsets, PSD)	Y	
Part 22(b)	PM10 adjustment allowance (Cumulative Increase, Offsets)	Y	
Part 22(c)	PM10 adjustment basis (Cumulative Increase, Offsets)	Y	
Part 22(d)	Annual emissions reporting (Compliance Monitoring)	Y	

IV. Source Specific Applicable Requirements

**Table IV — ~~A201.122.1~~
 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 23	Daily emission calculations (Offsets, PSD, Cumulative Increase)	Y	
Part 24	Source test requirements (Offsets, PSD, Cumulative Increase)	Y	
Part 25	Reporting requirements (2-6-502)	Y	
Part 26	Recordkeeping requirements (2-6-501)	Y	
Part 28	Stack height requirement (PSD, TRMP)	Y	
Part 29	Stack sampling ports and platforms requirement (1-501)	Y	
Part 31	Startup period limits (Cumulative Increase, Toxics)	Y	
Part 34	Emission monitoring compliance with 40 CFR Part 75 (2-7)	Y	
Part 35	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	Fuel gas TRS and H2S content recordkeeping and reporting (BACT, Offsets, Cumulative Increase)	Y	
Part 37	Fuel flow monitor requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 38	NOx, CO, O2 CEM requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 39	POC and PM10 annual quarterly source test (BACT)	Y	
Part 40	Sulfuric Acid Mist (SAM) quarterly source test (Cumulative Increase)	Y	
Part 41	Hydrocarbon control valves requirement. (Basis: Cumulative Increase Offsets)	Y	
Part 43	Connectors requirements. (Basis: RACT, offsets, Cumulative Increase)	Y	
Part 44	Hydrocarbon centrifugal compressors requirement. (Basis: RACT, Offsets, Cumulative Increase)	Y	
Part 46	Final fugitive component count. [Cumulative Increase, Offsets]	Y	
<u>BAAQMD Condition 25342</u>			
<u>Part 1c</u>	<u>H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1))</u>	<u>Y</u>	
<u>Part 2a</u>	<u>TRS concentration limit, 35 ppmvd, daily, rolling 365-day average (BACT)</u>	<u>Y</u>	
<u>Part 2f</u>	<u>TRS concentration limit, 100 ppmvd, daily, rolling 24-hour average (BACT)</u>	<u>Y</u>	
<u>Part 3b</u>	<u>H2S and TRS continuous emissions monitoring requirement (excluding pilot gas) (Refinery fuel gas and natural gas monitoring for SO2, BACT)</u>	<u>Y</u>	
<u>Part 4b</u>	<u>H2S and TRS recordkeeping requirement (BACT, Offsets, Cumulative</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV – ~~A201.122.1~~
 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>Increase</u>		
<u>Part 5b</u>	<u>Quarterly reporting for H2S and TRS (BACT, Offsets, Cumulative Increase)</u>	<u>Y</u>	

**Table IV – ~~A210.222.2~~
 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 (05/04/201107/19/2006)		
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)		

IV. Source Specific Applicable Requirements

**Table IV -- ~~A210.222-2~~
 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
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	
6-1-310	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 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 (12/15/201007/17/2002)		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
BAAQMD · Regulation 9 Rule 11	Inorganic Gaseous Pollutants, NOx and CO from Utility Electric Power Gen Boilers (5/17/2000)		
9-11-114	Exemption, Heat Recovery Steam Generators	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-	Y	

IV. Source Specific Applicable Requirements

**Table IV – ~~A210.222-2~~
 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
	Institutional Steam Generating Units.		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
40 CFR Part 60 Subpart A	General Provisions (09/13/201006/01/2006)		
60.13(i)	Alternative monitoring procedures	Y	
NSPS Title 40 CFR Part 60 Subpart Db	NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (01/20/201111/16/2006)		
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 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	

IV. Source Specific Applicable Requirements

**Table IV – ~~A210.222-2~~
 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
60.48b(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	
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	

IV. Source Specific Applicable Requirements

**Table IV – ~~A210.222-2~~
 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
NSPS Title 40 CFR Part 60 Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 LTD)	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 H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous Monitoring Systems Requirements	Y	
60.105(a)(4)	Monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)	Determine and report periods of excess emissions.	Y	
60.105(e)(3)(ii)	Excess SO ₂ 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 H ₂ S 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	
NSPS Title 40 CFR Part 60 Appendix B			
Performance Specification 2	NO _x Continuous Emission Monitoring Systems (06/13/2007)	Y	
Performance Specification 7	H ₂ S Continuous Emission Monitoring Systems (10/17/2000)	Y	
NSPS Title 40 CFR Part 60 Appendix F			
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	

IV. Source Specific Applicable Requirements

**Table IV – ~~A210.222-2~~
 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 Condition 19177			
Part 1	Offsets (NOx and POC)	Y	
Part 2	SO2 emission offsets, Curtailment Group, emission calculation methods, and quarterly reporting (SO2 offsets)	Y	
Part 6	NOx and CO emission limits (BACT)	Y	
Part 13	Refinery gas and natural gas firing restrictions (BACT for SO2 and PM10)	Y	
Part 14	Hourly firing rate limits (Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 15	Daily firing rate limit (Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
Part 16	Annual firing rate limit (Offsets, Cumulative Increase, Modification)	Y	
Part 17	NOx and CO abatement requirements (BACT for NOx)	Y	
Part 18	Natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 18(a)(1)	NOx concentration emission limit, natural gas firing (BACT for NOx when firing natural gas)	Y	
Part 18(b)	CO concentration emission limit, natural gas firing (BACT for CO when firing natural gas)	Y	
Part 18(c)	NH3 concentration emission limit, natural gas firing (Toxics)	Y	
Part 18(d)	POC mass emission limit, natural gas firing (BACT for POC when firing natural gas)	Y	
Part 18(e)	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)	PM10 grain loading emission limit, natural gas firing and pipeline quality natural gas restriction (BACT for PM10 when firing natural gas)	Y	
Part 19	Refinery fuel gas and natural gas firing emission limits (BACT, PSD, and Toxic Risk Management Policy)	Y	
Part 19(a)	NOx mass emission limit, refinery fuel gas and natural gas firing (BACT for NOx, Offsets)	<u>Y</u>	<u>Y</u>
Part 19(b)	NOx concentration emission limit, refinery fuel gas and natural gas firing (BACT for NOx)	Y	
Part 19(c)	CO mass emission limit, refinery fuel gas and natural gas firing (PSD for CO)	Y	
Part 19(d)	CO concentration limit, refinery fuel gas and natural gas firing (BACT for CO)	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A210.222-2~~
 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)	NH3 concentration limit, refinery fuel gas and natural gas firing (Toxics)	Y	
Part 19(f)	POC mass emission limit, refinery fuel gas and natural gas firing (BACT)	Y	
Part 19(g)	SO2 mass emission limit, TRS concentration limits, refinery fuel gas and natural gas firing (BACT)	Y	
Part 19(h)	PM10 mass emission limit, refinery fuel gas and natural gas firing (BACT for PM10)	Y	
Part 20	Sulfuric Acid Emissions (SAM) mass emission limit (PSD)	Y	
Part 22	Mass emission limits (Cumulative Increase, Offsets, PSD)	Y	
Part 22(a)	NOx, POC, SOx, CO, and PM10 mass emission limits (Cumulative Increase, Offsets, PSD)	Y	
Part 22(b)	PM10 adjustment allowance (Cumulative Increase, Offsets)	Y	
Part 22(c)	PM10 adjustment basis (Cumulative Increase, Offsets)	Y	
Part 22(d)	Annual emissions reporting (Compliance Monitoring)	Y	
Part 23	Daily emission calculations (Offsets, PSD, Cumulative Increase)	Y	
Part 24	Source test requirements (Offsets, PSD, Cumulative Increase)	Y	
Part 25	Reporting requirements (2-6-502)	Y	
Part 26	Recordkeeping requirements (2-6-501)	Y	
Part 28	Stack height requirement (PSD, TRMP)	Y	
Part 29	Stack sampling ports and platforms requirement (1-501)	Y	
Part 31	Startup period limits (Cumulative Increase, Toxics)	Y	
Part 34	Emission monitoring compliance with 40 CFR Part 75 (2-7)	Y	
Part 35	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	Fuel gas TRS and H2S content recordkeeping and reporting (BACT, Offsets, Cumulative Increase)	Y	
Part 37	Fuel flow monitor requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 38	NOx, CO, O2 CEM requirements for S-1030 and S-1031 (BACT, Offsets, Cumulative Increase, Monitoring)	Y	
Part 39	POC and PM10 annual quarterly source test (BACT)	Y	
Part 40	Sulfuric Acid Mist (SAM) quarterly source test (Cumulative Increase)	Y	
Part 41	Hydrocarbon control valves requirement. (Basis: Cumulative Increase Offsets)	Y	
Part 43	Connectors requirements. (Basis: RACT, offsets, Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A210.222-2~~
 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 44	Hydrocarbon centrifugal compressors requirement. (Basis: RACT, Offsets, Cumulative Increase)	Y	
Part 46	Final fugitive component count. [Cumulative Increase, Offsets]	Y	
BAAQMD Condition 24261			
Part 1	Alternate Monitoring Plans for NOx (Basis:40 CFR Part 60.13(i), Alternate Monitoring Plans)	Y	
<u>BAAQMD Condition 25342</u>			
<u>Part 1c</u>	<u>H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1))</u>	<u>Y</u>	
<u>Part 2a</u>	<u>TRS concentration limit, 35 ppmvd, daily, rolling 365-day average (BACT)</u>	<u>Y</u>	
<u>Part 2f</u>	<u>TRS concentration limit, 100 ppmvd, daily, rolling 24-hour average (BACT)</u>	<u>Y</u>	
<u>Part 3b</u>	<u>H2S and TRS continuous emissions monitoring requirement (excluding pilot gas) (Refinery fuel gas and natural gas monitoring for SO2, BACT)</u>	<u>Y</u>	
<u>Part 4b</u>	<u>H2S and TRS recordkeeping requirement (BACT, Offsets, Cumulative Increase)</u>	<u>Y</u>	
<u>Part 5b</u>	<u>Quarterly reporting for H2S and TRS (BACT, Offsets, Cumulative Increase)</u>	<u>Y</u>	

**Table IV -- ~~A21223~~
 Source-Specific Applicable Requirements
 Emergency Standby Diesel IC Engines
 S-243 (D5101)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (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	

IV. Source Specific Applicable Requirements

**Table IV -- ~~A21223~~
 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
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)		
6-303.1	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 · Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD · Regulation 9 · Rule 8	Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (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	1/1/2012
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	
CCR, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines (05/19/2011)		
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating	N	

IV. Source Specific Applicable Requirements

Table IV -- A21223
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
	Requirements and Emission Standards		
93115.6(b)(3)	Emission and operation standards	N	
93115.6(b)(3)(A)	Diesel PM Standard and Hours of Operation Limitations	N	
93115.6(b)(3)(A)(1)	General Requirements	N	
93115.6(b)(3)(A)(1)(b)	Operating for maintenance and testing limited to 20 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	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(de)	Monitoring Equipment	N	
93115.10(de)(1)	Install non-resettable hour meter with minimum display of 9,999 hours	N	
93115.10(fg)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
BAAQMD Condition 24375			
Part 1	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	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)(1)(a))	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(de)(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(fg))	Y	

IV. Source Specific Applicable Requirements

Table IV – A2324
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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 6 Rule 1	Particulate Matter, General Requirements (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	

IV. Source Specific Applicable Requirements

Table IV – A2324
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
40 CFR Part 60, Subpart J	NSPS Subpart J for Petroleum Refineries (06/24/2008)		
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	
60.100(b)	Applicability: Constructed/reconstructed/modified after 6/11/1973 and before May 14, 2007	Y	
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 Appendix F			
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems (06/13/2007)	Y	

IV. Source Specific Applicable Requirements

Table IV – A2324
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 22949			
Part 2	Allowable POC emissions from fugitive components [Basis: Cumulative Increase, Toxics]	Y	
Part 3	Daily average TRS and NSPS 3-hr average H2S fuel gas limits [Basis: NSPS, BACT]	Y	
Part 4	Rolling 365-day TRS fuel gas limit [Basis: BACT, Cumulative Increase]	Y	
Part 5	H2S and TRS CEMS requirements [Basis: Refinery fuel gas monitoring for SO2, BACT]	Y	
Part 6	Recordkeeping and quarterly reporting requirements for H2S and TRS [Basis: BACT, Offsets, Cumulative Increase, NSPS]	Y	
Part 7	Fire only refinery fuel gas [Basis: BACT]	Y	
Part 8	Annual mass emission limits for NOx, CO, SO2, PM10, and [Basis: Cumulative Increase, Offsets]	Y	
Part 8(a)	Basis for determining annual mass emissions [Basis: Monitoring]	Y	
Part 8(b)	Annual report for NOx, CO, SO2, PM10, and POC emissions [Basis: Reporting Requirements]	Y	
Part 9	Continuous fuel flow monitoring requirement [Basis: Monitoring]	Y	
Part 10	Startup and shutdown periods [Basis: Time allowances for startup and shutdown periods]	Y	
Part 10.1	Startup and shutdowns apply after initial startups [Basis: Time allowances for startup and shutdown periods]	Y	
Part 11	NOx concentration (ppm) and mass 3-hr average emission limits [Basis: BACT]	Y	
Part 12	CO concentration (ppm) and mass 8-hr average emission limits [Basis: BACT]	Y	
Part 13	Combined PM10 and POC mass emission limits [Basis: Monitoring]	Y	
Part 14	NOx, CO, and O2 CEMS requirements [Basis: CEM Monitoring]	Y	
Part 16	Annual and hourly firing rate limits [Basis: Cumulative Increase]	Y	
Part 17	Source test and CEMS testing procedures and approval requirements [Basis: Source test compliance verification and accuracy]	Y	
Part 18	5-year mass PM10 and POC source test requirements [Basis: Periodic Monitoring, Title V Compliance Verification]	Y	
Part 19	ULSD allowed operation limited to when diesel storage tank deliveries < 9,125,000 BBL/yr [Basis: Cumulative Increase]	Y	
BAAQMD Condition			

IV. Source Specific Applicable Requirements

Table IV – A2324
Source-Specific Applicable Requirements
Process Heaters
S-247 (F-5401) and S-248 (F-5402)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>25342</u>			
<u>Part 1c</u>	<u>H2S concentration limit, 162 ppmvd, 3-hour rolling average (40CFR60.104(a)(1))</u>	<u>Y</u>	
<u>Part 2b</u>	<u>TRS concentration limit, 45 ppmvd, rolling 365-day average (BACT, Cumulative Increase)</u>	<u>Y</u>	
<u>Part 2g</u>	<u>TRS concentration limit, 155 ppmvd, daily, calendar year average (BACT)</u>	<u>Y</u>	
<u>Part 3a</u>	<u>H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)</u>	<u>Y</u>	
<u>Part 4d</u>	<u>H2S and TRS recordkeeping requirement (Cumulative Increase, NSPS)</u>	<u>Y</u>	
<u>Part 5c</u>	<u>Quarterly reporting for H2S and TRS (Cumulative Increase, NSPS)</u>	<u>Y</u>	

Table IV – A23425
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engine
S-251 (DG-5301)

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

IV. Source Specific Applicable Requirements

**Table IV -- ~~A234~~²⁵
 Source-Specific Applicable Requirements
 Emergency Standby Diesel IC Engine
 S-251 (DG-5301)**

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	
CCR, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines (05/19/2011)		
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 (> bhp)	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)	In-Use Emergency Standby Diesel-Fueled CI Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(b)(3)	Emission and operation standards	N	
93115.6(b)(3)(A)	Diesel PM Standard and Hours of Operation Limitations	N	
93115.6(b)(3)(A)(1)	General Requirements	N	
93115.6(b)(3)(A)(1)(b)	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	N	

IV. Source Specific Applicable Requirements

Table IV -- A23425
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engine
S-251 (DG-5301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	emissions testing		
93115.6(b)(3)(A)(2)	Operation for maintenance and testing allowed to be > 30 hrs/year when PM emitted at a rate ≤ 0.40 g/bhp-hr	N	
93115.6(b)(3)(A)(2)(b)	Operation for maintenance and testing allowed to be 50 hrs/year when PM emitted at a rate ≤ 0.15 g/bhp-hr	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(de)	Monitoring Equipment	N	
93115.10(de)(1)	Install non-resettable hour meter with minimum display of 9,999 hours	N	
93115.10(fe)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR Part 60 Subpart III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/ 2006)		
60.4200(a)(2)(i)	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	Y	
60.4202	Emission standards for emergency engines for CI ICE Manufacturers (Incorporated by Reference – 60.4205(b))	Y	
60.4202(a)	Emission standards for 2007 and later model year non-fire pump CI ICE < 3000 HP and < 10 l displacement	Y	
60.4202(a)(2)	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	Y	
60.4205	Emission standards for emergency engines	Y	
60.4205(b)	2007 model year and later non-fire pump emergency CI ICE with displacement < 30 l must comply with 60.4202 emission standards	Y	
60.4206	Meet emission standards for the entire life of the engine		
60.4207	Fuel requirements	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR Part 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meet the requirements of 40 CFR Part 80.510(b) for nonroad diesel fuel	Y	10/1/2010
60.4207(c)	Owner/operators of pre-2001 stationary CI ICE may petition for approval to use remaining non-compliance fuel	Y	0
60.4209	Monitoring requirements	Y	
60.4209(a)	Install a non-resettable hour meter prior to engine startup	Y	
60.4211	Compliance requirements	Y	

IV. Source Specific Applicable Requirements

Table IV -- A23425
Source-Specific Applicable Requirements
Emergency Standby Diesel IC Engine
S-251 (DG-5301)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(a)	Comply with emission standards, operate and maintain CI ICE per manufacturer's written instructions and only change setting as permitted by manufacturer, <u>and meet the requirements of 40 CFR 89, 94 and/or 1068, as they apply.</u>	Y	
60.4211(c)	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	Y	
60.4211(fe)	Emergency ICE may be operated for maintenance and readiness checks limited to 100 hrs/year with no limit on operation for emergency purposes.	Y	
60.4214	Notification, reporting, and recordkeeping requirements	Y	
60.4214(b)	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)	Y	
60.4218	Comply with General Provisions as shown in Table 8	Y	
40 CFR Part 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (3/9/20113/10/2010)		
63.6585	Applicability	Y	
63.6585(a)	Applicable to stationary RICE; and	Y	
63.6585(b)	Applicable to major source of HAPs	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6690(a)(2)	A New Stationary RICE is:	Y	
63.6690(a)(2)(ii)	Rating ≤ 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006	Y	
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	

IV. Source Specific Applicable Requirements

**Table IV – ~~A23425~~
 Source-Specific Applicable Requirements
 Emergency Standby Diesel IC Engine
 S-251 (DG-5301)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
80.510(b)(1)	Sulfur content of diesel fuel must not exceed 15 ppm, maximum	Y	6/1/2010
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 24309			
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(de)(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(fg))	Y	

**Table IV – ~~A24526~~
 Source-Specific Applicable Requirements
 Hydrogen Reformer Furnace
 S-1061 (F-5501)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/201105/02/2001)		
1-520	Continuous Emission Monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – A24526
Source-Specific Applicable Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

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

IV. Source Specific Applicable Requirements

Table IV – A24526
Source-Specific Applicable Requirements
Hydrogen Reformer Furnace
S-1061 (F-5501)

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

IV. Source Specific Applicable Requirements

**Table IV – ~~A24526~~
 Source-Specific Applicable Requirements
 Hydrogen Reformer Furnace
 S-1061 (F-5501)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 75	Initial SAM source test requirement (Compliance demonstration, PSD avoidance)	Y	
Part 776	Shutdown S-21, S-22 (Offsets)	Y	
BAAQMD Condition 25342			
Part 1a	H2S concentration limit, 60 ppm daily, 365-rolling average (NSPS Subpart Ja)	<u>Y</u>	
Part 1c	H2S concentration limit, 162 ppmvd, 3-hour rolling average (NSPS Subpart Ja)	<u>Y</u>	
Part 2b	TRS concentration limit, 45 ppmvd, calendar year average (BACT, Cumulative Increase)	<u>Y</u>	
Part 2e	TRS concentration limit, 45 ppmvd, daily, calendar year average (BACT)	<u>Y</u>	
Part 3a	H2S and TRS continuous emissions monitoring requirement (Monitoring and Records)	<u>Y</u>	
Part 4c	TRS recordkeeping requirement (BACT, Offsets, Cumulative Increase)	<u>Y</u>	
Part 5c	Quarterly reporting for H2S and TRS (Cumulative Increase, NSPS)	<u>Y</u>	

**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
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		

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
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible 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 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 2e	S-8 Coke Storage abatement requirements (Cumulative Increase)	Y	
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)	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	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	
BAAQMD Condition 20820			
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

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
			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 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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/2008)		
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)	Y	
Part 2	Monthly activated carbon receipt recordkeeping (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)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part

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
			21-a triggers
Part 3	S-1, S-2, S-8, S-11 and S-176 monthly visible emissions monitoring (BAAQMD 6-1-301/SIP 6-301)	Y	

**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 (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible 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			

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
639			
Part 1	Visible emissions abatement requirement (1-301)	Y	
Part 2	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)	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, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible 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 3253			
Part 1	Install PM control device if dry salt is added to TK-2325 (Cumulative	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Increase)		
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)	Y	
Part 7	S-8 Coke Storage and S-176 Brine Saturator annual grain loading source test (BAAQMD 6-1-310/SIP 6-301)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 3	S-1, S-2, S-8, S-11 and S-176 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 6-301)	Y	

**Table IV - B5
 Source-Specific Applicable Requirements
 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)		

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition 9296			
Part B1	Ethanol trucks must use paved roads. (Cumulative Increase)	Y	
Part B2	Ethanol delivery methods. (Cumulative Increase)	Y	
Part B4	Ethanol truck delivery limit. (Cumulative Increase)	Y	
Part B5	Ethanol delivery restricted to TK-1820 (S-210). (Cumulative Increase)	Y	
Part B6	Total fugitive POC emissions [Cumulative Increase]	Y	
Part B9	Recordkeeping ethanol truck deliveries (Banked POC credits)	Y	
Part F1	Fugitive components	Y	
Part F2	Fugitive POC emission count	Y	

**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**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD-Regulation 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation	N	
6-1-401	Appearance of Emissions	N	

IV. Source Specific Applicable Requirements

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

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	
6-311	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)	Y	
Part 3	PM abatement device requirement (Cumulative Increase)	Y	
Part 5	Monthly ESP fines throughput recordkeeping (Cumulative Increase)	Y	

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	Particulate Matter, General Requirements (12/5/2007)		

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
Rule 1			
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations (Process Weight Rate Limitation	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible 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 2	Annual throughput limit (Cumulative Increase)	Y	
Part 4	PM abatement device requirement (Cumulative Increase)	Y	
Part 5	Monthly ESP fines throughput recordkeeping (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)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 3	S-1, S-2, S-8, S-11 and S-176 monthly visible emissions monitoring	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 6-1-301/SIP 6-301)		

Table IV — B68
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	
BAAQMD Condition 17835			
Part 1	Daily loading limit (Cumulative Increase)	Y	
Part 2	Annual loading limit (Cumulative Increase, Toxics, BACT)	Y	
Part 3	Quarterly recordkeeping requirement (Recordkeeping)	Y	
Part 4	POC abatement requirements (Contemporaneous Emission Reduction Credits)	Y	
Part 5	S-1027 gas collection system requirement. (Contemporaneous Emission Reduction Credits)	Y	
Part 6	POC emissions routing from Light Ends Rail Rack (Contemporaneous Emission Reduction Credits)	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~B7.19.1~~
 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	Determination of Compliance	Y	
BAAQMD Condition 11883			
Part 1	Abatement requirements(Cumulative Increase)	Y	

**Table IV -- ~~B7.219.2~~
 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	Determination of Compliance	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y	
40 CFR Part 61 Subpart FF	SHAPS, Benzene Waste Operations (12/04/2003)		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.341	Definitions	Y	

IV. Source Specific Applicable Requirements

Table IV – B7.219.2
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
61.345(a)	Standards: Containers	Y	
61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
61.346(a)	Standards: Individual Drain Systems	Y	
61.346(a)(1)	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]	Y	
61.346(a)(1)(i)	Standards: Individual Drain Systems; Cover requirements	Y	
61.346(a)(1)(i)(A)	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.	Y	
61.346(a)(1)(i)(B)	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	Y	
61.346(a)(2)	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	Y	
61.346(a)(3)	Standards: Individual Drain Systems; Except for delay of repair, repairs required not later than 15 calendar days after discovery of defect.	Y	
61.349	Standards: Closed Vent Systems and Control Devices	Y	
61.349(a)	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]	Y	
61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements [A-38 vapor balance system]	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. [A-38 vapor balance system]	Y	
61.349(a)(1)(iii)	Standards: Closed-Vent Systems and Control Devices; Gauging/sampling devices are gas-tight [A-38 vapor balance system]	Y	
61.349(a)(2)	Standards: Closed-Vent Systems and Control Devices; Control device requirements	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)(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; Operated at all times. [A-38 vapor balance system and A-57 and/or A-37 on S-131]	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	

IV. Source Specific Applicable Requirements

Table IV – B7.219.2
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 (06/23/200306/30/2010)		
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	
63.647(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	
63.655(a) 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 – B7.219.2
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 (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, General Requirements 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 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			

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
23326			
Part 1	CO mass emission limit (Cumulative Increase)	Y	
Part 2	Annual CO emission calculations and recordkeeping (Recordkeeping)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (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	
<u>BAAQMD Condition 20820</u>			
<u>Part 44</u>	<u>Sulfur storage pit (S-157) and product tank (S-236) throughput limits (Cumulative increase, odors)</u>	<u>Y</u>	
<u>Part 45</u>	<u>Daily material throughput records (Recordkeeping)</u>	<u>Y</u>	
BAAQMD Condition 23446			
Part 1	-Abatement requirements (Cumulative increase, EPA consent decree)	Y	
Part 2	-Maintenance recordkeeping (Recordkeeping)	Y	

IV. Source Specific Applicable Requirements

**Table IV – C3
 Source-Specific Applicable Requirements
 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 Rule 1	Particulate Matter, General Requirements (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 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 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 12	S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 12	S-159 Lube Oil Reservoir abatement requirement (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (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 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 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 2d	S-160 Seal Oil Sparger abatement requirements (Cumulative Increase)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 1	S-160 Seal Oil Sparger abatement requirements (Cumulative Increase)	Y	

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, General Requirements (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 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 19466	To be superseded by BAAQMD Condition 24198 upon activation of Condition 20820, Part 21.a triggers		
Part 13	S-167 and S-168 abatement requirement. (Cumulative Increase)	Y	
BAAQMD Condition 24198	Supersedes Condition 19466		Upon activation of Condition 20820, Part 21.a triggers
Part 13	S-167 and S-168 abatement requirement. (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 6 Rule 1	Particulate Matter, General Requirements (12/5/2007)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-311	General Operations (process weight rate limitation)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	N	
SIP · Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	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	
40 CFR 63 Subpart CC	<u>NESHAPS for Petroleum Refineries (06/30/2010)</u>		
63.640(c)(8)	<u>Applicability and Designation of Affected Source--Affected source comprises all heat exchange systems</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
63.640(h)	Applicability and Designation of Affected Source--Compliance dates	Y	
63.640(h)(2)	Compliance date – Existing sources	Y	
63.640(h)(6)	Compliance date – Existing sources – exception for heat exchange systems	Y	
63.641	Definitions	Y	
63.654	Heat exchange systems	Y	
63.654(a)	Heat exchange systems –Compliance requirements	Y	
63.654(c)	Heat exchange systems --Monthly monitoring to identify leaks of total strippable VOC	Y	
63.654(c)(1)	Heat exchange systems --Collect and analyze a sample from each cooling tower return line	Y	
63.654(c)(2)	Heat exchange systems --For a heat exchange system at an existing source, a leak is a total strippable VOC concentration (as CH4) in the stripping gas of 6.2 ppmv or greater	Y	
63.654(d)	Heat exchange systems --Reporting and Recordkeeping Requirements for Leaks	Y	
63.654(e)	Heat exchange systems --Additional monitoring upon leak detection	Y	
63.654(f)	Heat exchange systems --Delay of repair for heat exchange system leaks	Y	
63.654(g)	Heat exchange systems --Records required for delay of repair	Y	
63.655	Reporting and recordkeeping requirements	Y	
63.655(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report submittal requirements – submit NOCS within 150 days of compliance dates in 63.640(h)	Y	
63.655(f)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements - contents	Y	
63.655(f)(1)(vi)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements – contents for heat exchange systems	Y	
63.655(g)	Reporting and Recordkeeping Requirements--Periodic report submittal requirements	Y	
63.655(g)(9)	Reporting and Recordkeeping Requirements—Periodic report contents for heat exchange systems	Y	
63.655(h)	Reporting and Recordkeeping Requirements—Other Reports	Y	
63.655(h)(1)	Reporting and Recordkeeping Requirements—Startup, Shutdown and Malfunction Records and Reports	Y	
63.655(i)	Reporting and Recordkeeping Requirements--Recordkeeping	Y	
63.655(i)(4)	Reporting and Recordkeeping Requirements—Recordkeeping for heat exchange systems	Y	
63.655(i)(5)	Reporting and Recordkeeping Requirements--—Recordkeeping for required reports	Y	

IV. Source Specific Applicable Requirements

Table IV - C6
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 (06/15/199407/20/2005)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition 18422			
Part 1	Dock sump (S-239) throughput limit. (Cumulative Increase)	Y	
Part 2	Dock sump (S-239) compliance with Regulation 8-2. (Regulation 8-2-301)	Y	
Part 3	Dock sump (S-239) recordkeeping (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 vent is routed to fuel gas system	Y	
63.1567	Requirements for Inorganic HAP Emissions from Catalytic Reforming Units	Y	
63.1567(a)	Emission Limitations and Work Practice Standards	Y	
63.1567(a)(1)	Emission Limitations for Hydrogen Chloride (HCl) during coke burn-off	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
	and catalyst rejuvenation using wet scrubber: Reduce uncontrolled HCl emissions by 97% or to a concentration of 10 ppmvd corrected to 3%O ₂		
63.1567(a)(1)(ii)	Elect 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	
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	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
	average liquid-to-gas ratio, and maintain both above the operating limit established during performance test (Table 28, Items 1.a and 1.b)		
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	
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	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
	manufacturer’s specifications or other written procedures that provide adequate assurance that the equipment will monitor adequately.		
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	
63.1574(f)(2)	Minimum contents of Operation, Maintenance, and Monitoring Plan	Y	
63.1575	Reports	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1575(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	Superseded by Condition 20820, Parts 55 and 56 upon activation of Condition 20820, Part 21.a triggers		
Part 1	PFR (S-1004) throughput limit.	Y	
Part 2	Recordkeeping for PFR (S-1004) (Regulations 9-8-530, 1-441)	Y	
BAAQMD Condition 20820	Supersedes Condition 18794, Parts 1 and 2		Upon 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	

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
BAAQMD Condition 815	Superseded by Condition 20820, Parts 50, 51, and 52 upon activation of Condition 20820, Part 21.a triggers		
Part 1	Daily crude throughput limit (Cumulative Increase, toxics, offsets)	Y	
Part 2	Daily crude throughput recordkeeping and monthly report (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	Crude Throughput limits, 180 kbbbl/day maximum and 165 kbbbl per day, annual average (Cumulative increase)	Y	Upon activation of Condition 20820, Part 21.a triggers
Part 51	Daily crude throughput records at S-9 crude blow down system and S-1006 Pipestill Unit (Cumulative Increase)	Y	
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	Superseded by Condition 24197 upon startup of S-1061 and S-1062		
Part 12	Total fugitive POC emissions from all new and modified equipment [Cumulative Increase]	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
Part 51	Alkylation Unit (S-1007) throughput limit. (BACT, Cumulative Increase)	Y	
Part 52	Final fugitive component count. (Cumulative Increase, Offsets)	Y	
BAAQMD Condition 18043			
Part 1	Total fugitive POC emissions (Cumulative Increase, Toxics)	Y	
BAAQMD Condition 24197	Supersedes Condition 10574		Upon Startup of S-1061 and S-1062
Part 12	Total fugitive POC emissions from all new and modified equipment [Cumulative Increase]	Y	
Part 51	Alkylation Unit (S-1007) throughput limit. (BACT, Cumulative Increase)	Y	
Part 52	Final fugitive component count. (Cumulative Increase, Offsets)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · 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 15512			
Part 1	Deaerator vent abatement and source testing requirements (Regulation 8-2-301)	Y	
<u>Part 2</u>	<u>POC limit of 15 lbs/day and less than 300 ppmv total carbon, dry, for both North and South vents (Regulation 8-2-301, RACT)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

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

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 18043			
Part 1	Total fugitive POC emissions. [Cumulative Increase, Toxics]		

**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
BAAQMD Condition 9296			
Part F1	Fugitive components	Y	
Part F2	Fugitive POC emission count	Y	
BAAQMD Condition 18043			
Part 1	Total fugitive POC emissions. [Cumulative Increase, Toxics]	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
BAAQMD Condition 9296			
Part F1	Fugitive components	Y	
Part F2	Fugitive POC emission count	Y	
BAAQMD Condition 9296			
Part E1	Throughput limit LCNHF (S-1024). (Cumulative Increase, Toxics)	Y	
Part E2	Recordkeeping LCNHF (S-1024) (Recordkeeping)	Y	
Part F2	Fugitive POC emission count	Y	

**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 Condition 18043			
Part 1	Total fugitive POC emissions from the MTBE Phaseout Project (Cumulative Increase, Toxics)	Y	

**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

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	Superseded by Condition 24197 upon startup of S-1061 and S-1062		
Part 12	Total fugitive POC emissions. [Cumulative Increase]	Y	
BAAQMD Condition 24197	Supersedes Condition 10574		Upon Startup of S-1061 and S-1062
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	S-1036 daily throughput limit (Cumulative increase)	Y	
Part 37	S-1036 submittal of final design throughput documentation for adjustment of Part 36 daily throughput limit	Y	
Part 38	S-1036 daily throughput recordkeeping (Recordkeeping)	Y	
Part 39	S-1051, S-1052 daily throughput limits (Cumulative increase)	Y	
Part 40	S-1051, S-1052 submittal of final design throughput documentation for adjustment of Part 36 daily throughput limit	Y	
Part 41	S-1051, S-1052 daily throughput recordkeeping (Recordkeeping)	Y	
BAAQMD Condition 22949			
Part 2	Allowable POC emissions from fugitive components [Basis: Cumulative Increase, Toxics]	Y	
Part 19	ULSD allowed operation limited to when diesel storage tank deliveries ≤ 9,125,000 BBL/yr [Basis: Cumulative Increase]	Y	
Part 20	S-1036 daily throughput limit [Basis: Cumulative Increase]	Y	
Part 21	S-1051, S-1052 daily throughput limits [Basis: Cumulative Increase]	Y	
Part 22	Daily unit throughput recordkeeping requirements [Basis: Recordkeeping]	Y	
Part 23	Process vessel depressurization abatement requirements [Basis:	Y	

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)

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

IV. Source Specific Applicable Requirements

**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)**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 20820			
Part 36	S-1034, S-1035 daily throughput limits (Cumulative increase)	Y	
Part 37	S-1034, S-1035 submittal of final design throughput documentation for adjustment of Part 36 daily throughput limit	Y	
Part 38	S-1034, S-1035 daily throughput recordkeeping (Recordkeeping)	Y	
Part 39	S-1049, S-1050 daily throughput limits (Cumulative increase)	Y	
Part 40	S-1049, S-1050 submittal of final design throughput documentation for adjustment of Part 39 daily throughput limit	Y	
Part 41	S-1049, S-1050 daily throughput recordkeeping (Recordkeeping)	Y	
BAAQMD Condition 24080			
Part 1	Fugitive component count (Compliance monitoring)	Y	
Part 2	Fugitive POC emissions (Cumulative increase, toxics)	Y	
Part 3	34 daily IC4 production rate limit (Cumulative increase)	Y	
4	34 daily IC4 production rate recordkeeping (Recordkeeping)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 9296			
Part F1	Fugitive components	Y	
Part F2	Fugitive POC emission count	Y	

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)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 20820			
Part 53	Throughput limit (Cumulative increase)	Y	
Part 54	Daily material throughput records (Recordkeeping)	Y	
<u>BAAQMD Condition 24754</u>			
<u>Part 2</u>	<u>Fugitive NMOC emission limit and component count (Cumulative Increase, Offsets)</u>	<u>Y</u>	
<u>Part 3</u>	<u>Vent pressure relief devices to flare gas recovery system with recovery and/or destruction efficiency > 98%, weight (Regulation 8-28)</u>	<u>Y</u>	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 20820			
Part 2.b.i.4a	Fugitive components – valves (BACT, Cumulative Increase, Offsets)	Y	
Part 2.b.ii.4b	Fugitive components – flanges/connectors (BACT, Cumulative Increase, Offsets)	Y	
Part 2.b.iii.4c	Fugitive components – compressors (BACT, Cumulative Increase, Offsets)	Y	
Part 2.b.iv.4d	Fugitive components – pumps (BACT, Cumulative Increase, Offsets)	Y	
Part 2.b.v.4e	Comply with fugitive equipment monitoring and repair program (Compliance Monitoring)	Y	
Part <u>2.c</u>	Fugitive NMOC emission limit and component count (Cumulative Increase, Toxics)	Y	
Part 57	Combined throughput limit for S-1010, Hydrogen Plant (A or B train) and S-1062, Hydrogen Unit with Pressure Swing Adsorption (PSA) (Cumulative increase)	Y	
Part 58	Daily throughput records (recordkeeping)	Y	
Part 7.76	Shutdown S-21, S-22 (Offsets)	Y	

IV. Source Specific Applicable Requirements

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

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

**Table IV – D15
Source-Specific Applicable Requirements
S-1063 ALKYLATION HYDROGENTOR GUARD BEDS**

<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 24737</u>			
<u>Part 2</u>	<u>Total fugitive POC emissions from all new and modified equipment [Cumulative Increase, Offsets]</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (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	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117)	<u>Y</u>	
Part 2	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	

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
8-7-301.7	Poppeted Drybreaks	Y	
8-7-301.8	No-Coaxial Phase I Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-301.13	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 Retain 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	

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
8-7-315	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	
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	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	

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
Part 5	Start up Notification	✗	
Part 6	Performance Tests	✗	
Part 7	Annual Source Test	✗	
Part 8	Source Test Notification	✗	
Part 9	Coaxial Hose Requirements	✗	
Part 10	Dispensing Rate Requirements	✗	
Part 11	Vapor Pressure Sensor Location	✗	
Part 12	Veeder-Root Vapor Polisher Control Requirement	✗	
Part 13	Veeder-Root Vapor Polisher Operation Requirement	✗	
Part 14	Veeder-Root Vapor Polisher Outlet Requirement	✗	
Part 15	Veeder-Root Vapor Polisher Access Requirement	✗	
Part 16	CARB Executive Order VR-203	✗	
Part 17	Veeder-Root Vapor Polisher Testing Requirement	✗	
Part 18	Headspace Requirement	✗	
Part 19	Vapor Recovery Piping Requirement	✗	
Part 20	Condensate Traps and Knock-Out Pot	✗	
Part 21	Vent Pipe Requirement	✗	
Part 22	Installation and Service by Veeder-Root Vapor Trained Contractors	✗	
BAAQMD Condition # 24298			
Part 1	Install, Operate and Maintain VST EVR Phase II Vapor Recovery System	Y	
Part 2	Recordkeeping	Y	
Part 3	Leak Free and Vapor Tight Components	Y	
Part 4	Annual Source Test	Y	
Part 5	Source Test Notification	Y	
Part 6	Coaxial Hose Requirements	Y	
Part 7	Dispensing Rate Requirements	Y	
Part 8	Veeder-Root Vapor Polisher Control Requirement	Y	
Part 9	Veeder-Root Vapor Polisher Operating Requirement	Y	
Part 10	Veeder-Root Vapor Polisher Access Requirement	Y	
Part 11	Veeder-Root Vapor Polisher Testing Requirement	Y	
Part 12	Vent Pipe Requirement	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
BAAQMD · Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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	

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
8-44-305.4	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	
8-44-501.1	- For each loading event of any organic liquid;	N	
8-44-501.2	- For each ballasting operating 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. (08/301993)		
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	

IV. Source Specific Applicable Requirements

Table IV - F4
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
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of Proof	Y	
8-44-601	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	
NESHAPS Title 40 Part 63 Subpart CC	<u>NESHAPS for Petroleum Refineries (06/30/2010)</u>		
<u>63.640(a)</u>	<u>Applicability and Designation of Affected Sources</u>	<u>Y</u>	
<u>63.640(c)(6)</u>	<u>Applicability and Designation of Affected Sources: All marine vessel loading operations located at a petroleum refinery meeting the criteria in paragraph (a) of this section and the applicability criteria of subpart Y, §63.560;</u>	<u>Y</u>	
<u>63.641</u>	<u>Definitions</u>		
<u>63.651</u>	<u>Marine Vessel Tank Loading Operations Provisions</u>	<u>Y</u>	
<u>63.651(a)</u>	<u>Marine Vessel Tank Loading Operations Provisions; comply with 63 Subpart Y [63.560 through 63.568]</u>	<u>Y</u>	
<u>63.651(b)</u>	<u>Marine Vessel Tank Loading Operations Provisions; definitions</u>	<u>Y</u>	
<u>63.651(c)</u>	<u>Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – initial notification report not required</u>	<u>Y</u>	
<u>63.651(d)</u>	<u>Marine Vessel Tank Loading Operations Provisions; exceptions from 63 Subpart Y – compliance time</u>	<u>Y</u>	
NESHAPS Title 40 Part 63 Subpart Y	<u>NESHAPS for Marine Vessel Loading of Organic Liquids (04/20/2006)</u>		
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	

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
63.560(d)	Exemptions from MACT and RACT Standards	<u>Y</u>	
63.560(d)(3)	MACT standards apply to this source only as specified by 40 CFR 63 Subpart CC	<u>Y</u>	
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 1a	Gasoline loading NMHC emission limit (Cumulative Increase)	Y	
Part 1b	Gasoline loading throughput limit (Remain exempt from 40 CFR Part 63, Subpart Y standard of NESHAP for Marine Tank Vessel Loading Operations, Cumulative Increase)	<u>Y</u>	
Part 2	Gasoline loading VOC emission factors (non-enforceable) (Cumulative Increase)	<u>Y</u>	
Part 3	A-29 abatement efficiency requirements [Cumulative Increase, Regulation 8-44-304]	Y	
Part 4	Mogas loading recordkeeping (Cumulative Increase)	Y	
Part 5	VOC CEM requirement (Cumulative Increase)	Y	
Part 6	Gasoline loading pressure monitoring (Cumulative Increase, Regulation 8-44-304, SIP Regulation 8-44-301; CAM 40 CFR 64.2(b)(1)(vi))	Y	
Part 7	Quarterly gasoline loading report (Cumulative Increase)	Y	
Part 8	Uncontrolled gasoline loading conditions (Cumulative Increase)	Y	
Part 9	Gas leakage vessel testing (Cumulative Increase)	Y	
Part 10	Calculate emissions for leaks exceeding 5% of total volume based on gas leakage testing (Cumulative Increase)	Y	
Part 11	Emission reductions for excess calculations per Part 10 (Cumulative Increase)	Y	
Part 12	Leak test on relief valves, hatch covers, gauging connections and other potential leak points (RACT, Cumulative Increase)	Y	
BAAQMD Condition 20820			

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 23	Emission limits for NOx, SOx, NMOC, 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)	Y	January 1 of the year when Condition 20820, Part 21-a triggers are activated
Part 24	Annual emission limit adjustments (Cumulative Increase, Offsets)	Y	
Part 25	Determine compliance with emission limits using specified emission factors (Compliance Verification)	Y	
Part 26	Calendar year reporting (Annual Report)	Y	
Part 27	Daily recordkeeping requirement (Recordkeeping)	Y	
Part 29	Offset requirements (Contemporaneous Emission Reduction Credits)	N	

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	
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)	✘	
40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for benzene wastewater diverted to S-151		
61.342355(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option	Y	
61.342355(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	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 (06/23/2003/06/30/2010)		
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	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>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>		
<u>63.647(c)</u>	<u>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>63.655(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	
BAAQMD Condition 10574	Superseded by Condition 24197 Upon Startup of S-1061 and S-1062		
Part 1	CFP Pumps (Cumulative Increase, offsets, Toxics)}	Y	
Part 4	CFP Hydrocarbon flow control valves (BACT)	Y	
Part 5	CFP All other hydrocarbon valves (BACT)	Y	
Part 7	CFP Flanges (BACT, Offsets, Cumulative Increase, Toxics)	Y	
Part 10	Deleted.		
Part 11	CFP Process drains (BACT)	Y	
Part 12	CFP Total fugitive POC emissions(Cumulative Increase)	Y	
BAAQMD Condition 24197	Supersedes Condition 10574		Upon Startup of S-1061 and S-1062
Part 1	Pumps (Cumulative Increase, offsets, Toxics)}	Y	
Part 4	Hydrocarbon flow control valves (BACT)	Y	
Part 5	All other hydrocarbon valves (BACT)	Y	
Part 7	Flanges (BACT, Offsets, Cumulative Increase, Toxics)	Y	
Part 11	Process drains (BACT)	Y	
Part 12	Total fugitive POC emissions(Cumulative Increase)	Y	

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
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)	✘	
NESHAPS Title 40 CFR Part 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for benzene wastewater diverted to S-156		
61.342355(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option	Y	
61.342355(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	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 (06/23/2003/06/30/2010)		
63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum	Y	

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
	refining process units meeting the criteria of section 63.640(a)		
63.647(a)	<u>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	
63.647(c)	<u>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	
63.655(a)	<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	

**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)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, 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 (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	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 Rule 8	Wastewater Collection and Separation Systems (09/15/2004)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	N	
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in covers/vent pipes if total open area does not exceed 12.6 square inches and vent pipes are 3 ft long.	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries	N	
8-8-313	Uncontrolled 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; comply with 8-8-313.1 or 8-8-313.2 for uncontrolled sources		
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 Refineries	N	
8-8-505.4	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (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	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-603	Inspection Procedures	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)	✘	
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	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(e)	Standards: General; Compliance option – Treat to 6 or 6BQ Option	Y	
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Standards: General; Uncontrolled aqueous wastes shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
61.355(k)(1)	TBQ in waste streams not controlled for air emissions – use 61.355(a) methods	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	

**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	Organic Compounds, Wastewater Collection and Separation Systems		

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	(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 · 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	
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	NESHAPS, Benzene Waste Operations (12/04/2003)		

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
61Subpart FF			
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
61.340(d)	Exemption for emissions routed to fuel gas system [S188 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. [S188 is vented to refinery fuel gas system]	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators; Fixed roof requirements [S188 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)(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	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	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 (06/23/2003/06/30/2010)		
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			

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
Part 1	Abatement requirements S-188 and S-189 (Cumulative Increase)	Y	
Part 2	Throughput limits S-188 and S-189 (Cumulative Increase)	Y	

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

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

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	
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,	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	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	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators; Fixed roof requirements	Y	
61.347(a)(1)(i)(A)	Standards: Oil-Water Separators; Fixed roof-- 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	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	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.	Y	
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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)(2)(ii)	Standards: Closed-Vent Systems and Control Devices; Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
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	

IV. Source Specific Applicable Requirements

Table IV - H4.2
Source-Specific Applicable Requirements
CPS Units
S-194, S-195 (2006, 2056)
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003/06/30/2010)		
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	
63.655(a) 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>		
Part 1	Abatement Requirements —carbon canisters and/or thermal oxidizer. (Basis: Cumulative Increase)[Cumulative Increase]	Y	
Part 2	Combined throughput limit for Throughput limits - S-194, S-195, S-197 and S-198 not to exceed 3000 gallons per minute. (Basis: Cumulative Increase), [Cumulative Increase, recordkeeping]	Y	
<u>Part 3</u>	<u>A-57 and A-68 NOx emissions Limit [RACT, Source Test Method 13A]</u>	<u>Y</u>	
<u>Part 4</u>	<u>A-57 and A-68 CO emissions Limit [RACT, Source Test Method 6]</u>	<u>Y</u>	
<u>Part 5</u>	<u>A-57 and A-68 VOC destruction efficiency requirement [Cumulative Increase; BACT]</u>	<u>Y</u>	
<u>Part 6</u>	<u>A-57 and A-68 minimum oxidation temperature requirement. [Cumulative Increase]</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)
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	A-57 and A-68 continuous temperature monitor [Regulation 2-1-403]	Y	
Part 8	A-37 continuous flow meter and continuous total hydrocarbon concentration monitor [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 [Cumulative Increase] install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)	Y	
Part 10	NMHC mass emissions limit [Regulation 2-1-403]	Y	
Part 11	NMHC determination methods – carbon canisters [Cumulative Increase]	Y	
Part 12	NMHC determination methods [Cumulative Increase]	Y	
Part 13	NMHC determination - Recordkeeping [Cumulative Increase]	Y	
Part 14 [A68 ONLY]	A-68 propane firing limit [cumulative increase]	Y	
Part 15	A-57 and A-68 temperature excursion exemption [Regulation 2-1-403]	Y	
Part 16	A-57 and A-68 temperature excursion recordkeeping [Regulation 2-1-403]	Y	
Part 17	A-57 and A-68 operation recordkeeping [Recordkeeping]	Y	
Part 18	A-37 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	Y	
BAAQMD Condition 24245			
Part 47	Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)	Y	
Part 48	Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)	Y	
Part 49	Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)	Y	
Part 50	Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)	Y	

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

IV. Source Specific Applicable Requirements

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	
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)		
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	

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
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	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	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 (06/23/200306/30/2010)		
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)	Y	
Part 2	Throughput limits S-188 and S-189 (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

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

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

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	
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)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	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	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators; Fixed roof requirements	Y	

IV. Source Specific Applicable Requirements

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

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	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	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.	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)(2)(ii)	Standards: Closed-Vent Systems and Control Devices; Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
61.349(b)	Standards: Closed-Vent Systems and Control Devices; Operated at all times.	Y	

IV. Source Specific Applicable Requirements

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

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

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; 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-regenerate 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 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003/06/30/2010)		
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	Y	

IV. Source Specific Applicable Requirements

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

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	operate consistently with the permitted concentration or operating parameter values.		
63.655(a) 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>		
Part 1	Abatement Requirements – carbon canisters and/or thermal oxidizer. (Basis: Cumulative Increase) Abatement Requirements [Cumulative Increase]	Y	
Part 2	Combined throughput limit for Throughput limits - S-194, S-195, S-197 and S-198 not to exceed 3000 gallons per minute. (Basis: Cumulative Increase). [Cumulative Increase, recordkeeping]	Y	
<u>Part 3</u>	<u>A-57 and A-68 NOx emissions Limit [RACT, Source Test Method 13A]</u>	<u>Y</u>	
<u>Part 4</u>	<u>A-57 and A-68 CO emissions Limit [RACT, Source Test Method 6]</u>	<u>Y</u>	
<u>Part 5</u>	<u>A-57 and A-68 VOC destruction efficiency requirement [Cumulative Increase; BACT]</u>	<u>Y</u>	
<u>Part 6</u>	<u>A-57 and A-68 minimum oxidation temperature requirement. [Cumulative Increase]</u>	<u>Y</u>	
<u>Part 7</u>	<u>A-57 and A-68 continuous temperature monitor [Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 8</u>	<u>A-37 continuous flow meter and continuous total hydrocarbon concentration monitor [Cumulative Increase]</u>	<u>Y</u>	
Part 9	<u>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 [Cumulative Increase]</u> Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)	Y	
<u>Part 10</u>	<u>NMHC mass emissions limit [Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 11</u>	<u>NMHC determination methods – carbon canisters [Cumulative Increase]</u>	<u>Y</u>	
<u>Part 12</u>	<u>NMHC determination methods [Cumulative Increase]</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)**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 13	NMHC determination - Recordkeeping [Cumulative Increase]	<u>Y</u>	
Part 14 [A68 ONLY]	A-68 propane firing limit [cumulative increase]	<u>Y</u>	
Part 15	A-57 and A-68 temperature excursion exemption [Regulation 2-1-403]	<u>Y</u>	
Part 16	A-57 and A-68 temperature excursion recordkeeping [Regulation 2-1-403]	<u>Y</u>	
Part 17	A-57 and A-68 operation recordkeeping [Recordkeeping]	<u>Y</u>	
Part 18	A-37 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	<u>Y</u>	
BAAQMD Condition 24245			
Part 47	Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)	<u>Y</u>	
Part 48	Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)	<u>Y</u>	
Part 49	Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)	<u>Y</u>	
Part 50	Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)	<u>Y</u>	

**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)**

IV. Source Specific Applicable Requirements

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)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	

Table IV - H7
Source-Specific Applicable Requirements
S-131 (TK-2069) WW Sludge Tank
S-150 (PST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (9/15/2004)		
8-8-303	Gauging and Sampling Devices	Y	
8-8-304	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.	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)		
8-8-304	Sludge-dewatering Unit. Totally enclosed and vented to a control device >= 95 % (wt) abatement efficiency.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	

IV. Source Specific Applicable Requirements

Table IV - H7
Source-Specific Applicable Requirements
S-131 (TK-2069) WW Sludge Tank
S-150 (PST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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)		
61.343(a)	Standards: Tanks; Benzene-containing wastes	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)(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	
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)	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	

IV. Source Specific Applicable Requirements

Table IV - H7
Source-Specific Applicable Requirements
S-131 (TK-2069) WW Sludge Tank
S-150 (PST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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; Controlled by enclosed combustion device with greater than 95% control efficiency.	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; Enclosed combustion 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(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	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	Y	

IV. Source Specific Applicable Requirements

Table IV - H7
Source-Specific Applicable Requirements
S-131 (TK-2069) WW Sludge Tank
S-150 (PST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	temperature		
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 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/200306/30/2010)		
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) (S-200 only)	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	
63.655(a) 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 Wastewater Condition		
Part 1	Abatement Requirements — A37 carbon canisters and/or A57 thermal oxidizer. (Basis: Cumulative Increase)Abatement Requirements. [Cumulative Increase]	Y	
Part 3	A-57 and A-68 NOx emissions Limit [RACT, Source Test Method	Y	

IV. Source Specific Applicable Requirements

Table IV - H7
Source-Specific Applicable Requirements
S-131 (TK-2069) WW Sludge Tank
S-150 (PST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	13A]NOx limit – A57 thermal oxidizer – 25 ppmvd @ 3% O2 (Basis: Cumulative Increase)		
Part 4	A-57 and A-68 CO emissions Limit [RACT, Source Test Method 6]CO limit – A57 thermal oxidizer – 50 ppmvd @ 3% O2 (Basis: Cumulative Increase)	Y	
Part 5	A-57 and A-68 VOC destruction efficiency requirement [Cumulative Increase; BACT]Abatement efficiency – A57 thermal oxidizer – 98.5% (Basis: NSPS and NESHAP)	Y	
Part 6	A-57 and A-68 minimum oxidation temperature requirement. [Cumulative Increase]Oxidation temperature – A57 thermal oxidizer – 1400F (minimum) (3 hour averaging period) (Basis: Regulation 2-1-403)	Y	
Part 7	A-57 and A-68 continuous temperature monitor [Regulation 2-1-403]Temperature monitoring device requirement – A57 thermal oxidizer (Basis: Temperature Monitoring and Regulation 1-521)	Y	
Part 8	A-37 continuous flow meter and continuous total hydrocarbon concentration monitor [Cumulative Increase]Flow meter and organic emission analyzer requirement – A37 carbon canisters (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 [Cumulative Increase]Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)	Y	
Part 10	NMHC mass emissions limit [Regulation 2-1-403]Combined NMHC limit from A36, A37, and A57 – 15 lb/day (1 month average) (Basis: Regulation 8, Rule 2)	Y	
Part 11	NMHC determination methods – carbon canisters [Cumulative Increase]NMHC determination method – A36 and A37 carbon canisters (Basis: Cumulative Increase)	Y	
Part 12	NMHC determination methods [Cumulative Increase]NMHC determination method – A57 thermal oxidizer (Basis: Cumulative Increase)	Y	
Part 13	NMHC determination - Recordkeeping [Cumulative	Y	

IV. Source Specific Applicable Requirements

Table IV - H7
Source-Specific Applicable Requirements
S-131 (TK-2069) WW Sludge Tank
S-150 (PST-2051) Primary Sludge Thickener
S-200 (D-2056) Slop Oil Vessel
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Increase Recordkeeping (Basis: Cumulative Increase)		
<u>Part 14 [A68 ONLY]</u>	<u>A-68 propane firing limit [cumulative increase]</u>	<u>Y</u>	
<u>Part 15</u>	<u>A-57 and A-68 temperature excursion exemption [Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 16</u>	<u>A-57 and A-68 temperature excursion recordkeeping [Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 17</u>	<u>A-57 and A-68 operation recordkeeping [Recordkeeping]</u>	<u>Y</u>	
<u>Part 18</u>	A-37 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	Y	
<u>BAAQMD Condition 24245</u>			
<u>Part 47</u>	<u>Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)</u>	<u>Y</u>	
<u>Part 48</u>	<u>Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)</u>	<u>Y</u>	
<u>Part 49</u>	<u>Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)</u>	<u>Y</u>	
<u>Part 50</u>	<u>Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)</u>	<u>Y</u>	

Table IV - H8
Source-Specific Applicable Requirements
Slop Oil Vessel
S-199 (D-2055)
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds, Wastewater Collection and Separation Systems (9/15/2004)		
8-8-303	Gauging and Sampling Devices	Y	

IV. Source Specific Applicable Requirements

**Table IV - H8
 Source-Specific Applicable Requirements
 Slop Oil Vessel
 S-199 (D-2055)**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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; with organic compound vapor recovery system with >= 70% (wt) abatement efficiency	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP · Regulation 8 · Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (8/29/1994)		
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	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)	N	
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	
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	
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	Y	

IV. Source Specific Applicable Requirements

**Table IV - H8
 Source-Specific Applicable Requirements
 Slop Oil Vessel
 S-199 (D-2055)**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	inspection		
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	
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	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003/06/30/2010)		
63.640(c)(3)	Wastewater streams and treatment operations associated with	Y	

IV. Source Specific Applicable Requirements

Table IV - H8
Source-Specific Applicable Requirements
Slop Oil Vessel
S-199 (D-2055)
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	petroleum refining process units meeting the criteria of section 63.640(a)		
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	
63.655(a) 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 Wastewater Condition		
Part 1	Abatement Requirements – A37 carbon canisters and/or A57 thermal oxidizer. (Basis: Cumulative Increase) Abatement Requirements [Cumulative Increase]	Y	
Part 3	A-57 and A-68 NOx emissions Limit [RACT, Source Test Method 13A] NOx limit – A57 thermal oxidizer – 25 ppmvd @ 3% O2 (Basis: Cumulative Increase)	Y	
Part 4	A-57 and A-68 CO emissions Limit [RACT, Source Test Method 6] CO limit – A57 thermal oxidizer – 50 ppmvd @ 3% O2 (Basis: Cumulative Increase)	Y	
Part 5	A-57 and A-68 VOC destruction efficiency requirement [Cumulative Increase; BACT] Abatement efficiency – A57 thermal oxidizer – 98.5% (Basis: NSPS and NESHAP)	Y	
Part 6	A-57 and A-68 minimum oxidation temperature requirement. [Cumulative Increase] Oxidation temperature – A57 thermal oxidizer – 1400F (minimum) (3-hour averaging period) (Basis: Regulation 2-1-403)	Y	

IV. Source Specific Applicable Requirements

**Table IV - H8
 Source-Specific Applicable Requirements
 Slop Oil Vessel
 S-199 (D-2055)**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
Part 7	A-57 and A-68 continuous temperature monitor [Regulation 2-1-403]Temperature monitoring device requirement – A57 thermal oxidizer (Basis: Temperature Monitoring and Regulation 1-521)	Y	
Part 8	A-37 continuous flow meter and continuous total hydrocarbon concentration monitor [Cumulative Increase]Flow meter and organic emission analyzer requirement – A37 carbon canisters (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 [Cumulative Increase]Install flow indicator on vent to abatement devices. (Basis: Cumulative Increase)	Y	
Part 10	NMHC mass emissions limit [Regulation 2-1-403]Combined NMHC limit from A36, A37, and A57 – 15 lb/day (1 month average) (Basis: Regulation 8, Rule 2)	Y	
Part 11	NMHC determination methods – carbon canisters [Cumulative Increase]NMHC determination method – A36 and A37 carbon canisters (Basis: Cumulative Increase)	Y	
Part 12	NMHC determination methods – thermal oxidizers. [Cumulative Increase]NMHC determination method – A57 thermal oxidizer (Basis: Cumulative Increase)	Y	
Part 13	NMHC determination - Recordkeeping [Cumulative Increase]Recordkeeping (Basis: Cumulative Increase)	Y	
Part 14 [A68 ONLY]	A-68 propane firing limit. [cumulative increase]	Y	
Part 15	A-57 and A-68 temperature excursion exemption [Regulation 2-1-403]]	Y	
Part 16	A-57 and A-68 temperature excursion recordkeeping [Regulation 2-1-403]]	Y	
Part 17	A-57 and A-68 operation recordkeeping [Recordkeeping]	Y	
Part 18	A-37 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	Y	
<u>BAAQMD Condition 24245</u>			
Part 47	Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)	Y	
Part 48	Carbon canister monitoring frequency (Consent Decree X.E	Y	

IV. Source Specific Applicable Requirements

**Table IV - H8
 Source-Specific Applicable Requirements
 Slop Oil Vessel
 S-199 (D-2055)**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Paragraph 142		
Part 49	Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)	Y	
Part 50	Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)	Y	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60 Subpart QQQ	Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems (10/17/2000)		
60.690	Applicability and designation of affected facility	Y	
60.690(a)(1)	Affected facilities located in petroleum refineries; construction, modification, or reconstruction commenced after May 4, 1987	Y	
60.690(a)(2)	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]	Y	
60.691	Definitions	Y	
60.692-1	Standards: General	Y	
60.692-1(a)	Standards: General; Comply except during periods of startup, shutdown, or malfunction	Y	
60.692-1(b)	Standards: General; Determination of compliance	Y	
60.692-1(c)	Standards: General; Alternative means of compliance	Y	
60.692-1(d)	Standards: General; Exemptions	Y	
60.692-2	Standards: Individual drain systems	Y	
60.692-2(a)(1)	Standards: Individual drain systems; equip each drain with water seal	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-2(a)(2)	Standards: Individual drain systems; Drains in active service - Monthly visual or physical inspections for low water level or other problem	Y	
60.692-2(a)(3)	Standards: Individual drain systems; Drains out of active service - Weekly visual or physical inspections for low water level or other problem	Y	
60.692-2(a)(4)	Standards: Individual drain systems; Drains out of active service – Alternative to weekly inspection – tightly sealed cap or plug with semiannual inspections	Y	
60.692-2(a)(5)	Standards: Individual drain systems; Repair – first attempt within 24 hours of detection unless delay of repair (60.692-6)	Y	
60.692-2(b)(1)	Standards: Individual drain systems; Junction box requirements – vent pipes	Y	
60.692-2(b)(2)	Standards: Individual drain systems; Junction box requirements – sealed covers	Y	
60.692-2(b)(3)	Standards: Individual drain systems; Junction box requirements – sealed covers - semiannual visual inspections	Y	
60.692-2(b)(3)	Standards: Individual drain systems; Junction box requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)	Y	
60.692-2(c)(1)	Standards: Individual drain systems; Sewer line requirements – no visual gaps or cracks	Y	
60.692-2(c)(2)	Standards: Individual drain systems; Sewer line requirements – semiannual inspections of unburied sewer lines	Y	
60.692-2(c)(3)	Standards: Individual drain systems; Sewer line requirements – Repairs – first attempt within 15 calendar days after detection except delay of repair (60.692-6)	Y	
60.692-2(d)	Standards: Individual drain systems; Exemption for systems with catch basins installed prior to May 4, 1987	Y	
60.692-2(e)	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.	Y	
60.692-6	Standards: Delay of repair	Y	
60.692-6(a)	Standards: Delay of repair; Allowances for delay of repair	Y	
60.692-6(b)	Standards: Delay of repair; Complete repairs before end of next refinery or process unit shutdown	Y	
60.697	Recordkeeping requirements	Y	
60.697(a)	Recordkeeping requirements; retention	Y	
60.697(b)(1)	Recordkeeping requirements; individual drain systems – records of	Y	

IV. Source Specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	corrective actions when inspections detect dry water seals or other problems		
60.697(b)(2)	Recordkeeping requirements; junction boxes – records of corrective actions when inspections detect problems	Y	
60.697(b)(3)	Recordkeeping requirements; sewer lines – records of corrective actions when inspections detect r problems	Y	
60.697(e)(1)	Recordkeeping requirements; delay of repair - expected date of repair	Y	
60.697(e)(2)	Recordkeeping requirements; delay of repair – reason for delay	Y	
60.697(e)(3)	Recordkeeping requirements; delay of repair – signature of delay of repair decision maker [owner/operator/designee]	Y	
60.697(e)(4)	Recordkeeping requirements; delay of repair - actual date of repair	Y	
60.697(f)(1)	Recordkeeping requirements; design specifications – retain for life of equipment	Y	
60.697(f)(2)	Recordkeeping requirements; design specifications – information required	Y	
60.697(g)	Recordkeeping requirements; plans showing location of drains with caps and plugs – retain for life of facility	Y	
60.698	Reporting requirements	Y	
60.698(b)(1)	Reporting requirements; semiannual certification of required inspections	Y	
60.698(c)	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	Y	

Per the overlap at 63.640(o)(1), any Group 1 wastewater streams that are managed in equipment that is also subject to 40 CFR Part 60, Subpart QQQ are only required to comply with 40 CFR 63 Subpart CC 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)

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
S-9 Flare Gas Rec. System	X							Exempt [63.640(d)(5)]
S-51 HCU Feed Filter R-410A	X		X					X
S-52 HCU Feed Filter R-410B	X		X					X
S-129 Crude/Product Dock	X							X
S-188 OMS OWS	X			Exempt {63.640(o)(1)}		X		Exempt [63.640(d)(5)]
S-189 OMS ISF	X			Exempt {63.640(o)(1)}		X		Exempt [63.640(d)(5)]

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
S-201 WWT Vacuum Truck Load (from S-192)	X							
S-202 WWT Vacuum Truck Load (from S-131)	X					X		
S-208 Coker Feed Drum (D-920)	X					X		Exempt [63.640(d)(5)]
S-209 Ethanol Truck Unloading	X	9296 F1 , F2						
S-211 Alkylate Debutanizer (at former MTBE Unit)	X	18043 1	X					X
S-1002 Diesel Hydrofiner	X		X					X
S-1003 Hydrocracker (HCU)	X	10574 5, 7, 8, 11, 12 (supersede			X			X

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-69 (1), (3) NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7) NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3) NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, NESHAPS 40 CFR Part 61, Subparts J and V; BAAQMD Reg. 11-7 (1), (2), (5) NESHAPS 40 CFR Part 63, Subpart CC, 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) NESHAPS 40 CFR Part 63, Subpart CC [40 CFR Part 60, Subpart VV] (1)
		d by 24197) 24754-2						
S-1004 Powerformer	X							X
S-1005 Catalytic Feed Hydro.	X		X					X
S-1006 Pipestill Unit	X		X					X
S-1007 Alkylolation Unit	X	10574 1, 4, 5, 7, 8, 11, 12, 52 (supersede d by 24197) 18043 1	X					X

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart VVa] [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
S-1008 Gasoline Hydrofiner	X		X					X
S-1009 Jet Fuel Hydrofiner	X		X					X
S-1010 Hydrogen Plant	X							
S-1011 Heavy Cat Naphtha Hydrofiner	X	10574 1, 4, 5, 7, 8, 11, 12 (supersede d by 24197)			X			X
S-1012 Dimersol Unit	X	18043 1	X					
S-1014 Cat Light Ends	X	18043 1	X		X			X
S-1020 Heartcut Tower (MRU), except for Heartcut Stream	X	10574 1, 4, 5, 7, 8, 11, 12	X					X

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
		(supersede d by 24197)						
S-1021 Heartcut Sat Unit (MRU) except for Heartcut Stream	X	10574 1, 4, 5, 7, 8-11, 12 (supersede d by 24197)	X					X
S-1022 Cat Ref T90 Tower MRU	X	10574 1, 4, 5, 7, 8, 11, 12 (supersede d by 24197)	X					X
S-1023 Cat Nap T90 Tower	X	10574 1,	X					X

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
MRU		4, 5, 7, 8, 11, 12 (supersede d by 24197)						
S-1024 Lt Cat Nap Hydrotreater MRU	X	10574 1, 4, 5, 7, 8, 11, 12 (supersede d by 24197)	X		X			X
S-1026 C5/C6 Splitter (MRU)	X	10574 1, 4, 5, 7, 8, 11, 12 (supersede d by	X					X

IV. Source Specific Applicable Requirements

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

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-69 (1), (3) NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7) NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3) NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, NESHAPS 40 CFR Part 61, Subparts J and V; BAAQMD Reg. 11-7 (1), (2), (5) NESHAPS 40 CFR Part 63, Subpart CC, 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) NESHAPS 40 CFR Part 63, Subpart CC [40 CFR Part 60, Subpart VV] (1)
		1, 2 1, 2						
S-1049 Butamer Reactor (R-4803A)	X	24080 1, 2 1, 2			X			X
S-1050 Butamer Reactor (R-4803B)	X	24080 1, 2 1, 2			X			X
S-1051 Diolefin Reactor (ULSD)	X	22949 1, 2 1, 2	X					X
S-1052 Hydrotreating Reactor (ULSD)	X	22949 1, 2 1, 2	X					X
S-1058 Virgin Light Ends, excluding S-1002, S-1008, and S-1009	X	10574 1, 4, 5, 7, 8, 11, 12 (supersede d by 24197)						X
S-1059 and S-1060 (FGS CO)	X	20820.2.c						

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
<u>Furnaces</u>								
S-1062 Hydrogen Unit with Pressure Swing Adsorption (PSA)	X	20820 1, 2			<u>X</u>			
<u>S-1063 Alkylation Hydrogenator Guard Beds</u>	<u>X</u>	<u>24737, Part 2</u>	<u>X</u>					<u>X</u>
Fluid Coker	X							X
Vapor Recovery Compressors A-46/47 (C-1704 A/B) at S-227	X		X					
Vapor Recovery Compressors A-40/41 (C-1702 A/B) at S-65, S-69, S-70 (B5574), S-71 (B5574)	X		X					
Compressor C-101C at S-1006	X		X					

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
COGEN Compressors (C4901/C4902)	X		X Exempt (8)		Exempt (8)			Exempt (8)
Fluid Catalytic Cracking Unit	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							
Utilities (FG piping)	X							
Wastewater Diversion Area Tanks and Abatement S-193, S-196, S-205, S-206	Exempt [8-18-115]			Exempt [63.640(e)(1)]		X		X

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
A36, A65								
Wastewater Treatment Plant Sources and Abatement S-131, S-150, S-194, S-195, S-197, S-198, S-199, S-200, A37, A57, <u>A68</u>	X			Exempt {63.640(e)(1)}		X		X
Railcar Loading/Unloading Rack S-1027	X	17835 5						
Truck Loading/Unloading Rack	X							
OM-12 Area – Light Ends	X							
LPG Spheres (TK-1721 thru 1725)	X							
OM-13 Areas:								

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart QQQ; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
Intermediate Feed Storage	X							X
Distillate Storage	X							X
Pipestill Feed	X							X
Slop System	X							X
COKER Feed Tank VRS	X							
OM-14/Dock Areas:								
Dock and DVRU	X							
Crude Field	X							X
Product Tanks	X							X

IV. Source Specific Applicable Requirements

Table IV- 10 Fugitive Sources: Applicable Requirements								
Process Unit	BAAQMD Reg. 8-18 & SIP (5)	BAAQMD Permit Conditions (4)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-59 40 CFR Part 60, Subpart VV; BAAQMD Reg. 10-59/10-52 (1), (6)	NSPS 40 CFR Part 60, Subpart GGG; BAAQMD Reg. 10-69 (1), (3)	NSPS 40 CFR Part 60, Subpart GGGa [40 CFR Part 60, Subpart VVa] (1), (6)(7)	NESHAPS 40 CFR Part 63, Subpart CC NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg. 11-12 (1), (3)	NESHAPS 40 CFR Part 63, Subpart CC, 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)
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) Equipment leaks subject to 40 CFR Part 63, Subpart CC and also subject to a subpart of Part 60 (NSPS) or Part 61 (NESHAPS) promulgated before September 4, 2007 are only required to comply with 40 CFR Part 63, Subpart CC per the overlap at 63.640(p)(1). Equipment leaks subject to Subpart CC are emissions of organic hazardous air pollutants from the following equipment located at petroleum refining process units as defined 63.641: a pump, compressor, pressure relief device,

IV. Source Specific Applicable Requirements

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.

- (2) 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 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)(1) (see Note 1)
- (3) 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 40 CFR Part 60, Subpart QQQ are only required to comply with 40 CFR 63 Subpart CC 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)~~
- (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 and BAAQMD 11-7 are also subject to any applicable requirements of SIP 8-18 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 groups of equipment at petroleum refinery process units as defined in ~~those that~~ regulations and compressors constructed, reconstructed, or modified after January 4, 1983 and on or before November 7, 2006. 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~~The equipment subject to 40 CFR Part 60, Subpart GGG ~~or Subpart GGGa~~ that overlaps with 40 CFR Part 63, Subpart CC ~~are is~~ only subject to 40 CFR Part 63, Subpart CC per the overlap at 63.640(p)(1) and must comply with the equipment leak standards set forth in 40 CFR Part 60, Subpart VV. (see Note 1)
- (7) Sources subject to 40 CFR Part 60, Subpart GGGa are the groups of equipment at petroleum refinery process units as defined in that regulation and compressors constructed, reconstructed, or modified after November 7, 2006. 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 GGGa that overlap with 40 CFR Part 63, Subpart CC is only subject to 40 CFR Part 60, Subpart GGGa per the overlap at 63.640(p)(2) and must comply with the equipment leak standards set forth in 40 CFR Part 60, Subpart VVa.
- (8) The COGEN plant is not a petroleum refinery process unit as defined in 40 CFR Part 63 Subpart CC or as defined in 40 CFR Part 60 Subpart GGG or 40 CFR 660 Subpart GGGa. Therefore, the COGEN plant is not subject to those regulations and equipment at the COGEN plant is exempt from the equipment leak standards in those regulations.

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
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)		

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
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 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	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-52	Subpart VV – Equipment Leaks of VOC in SOCM I	Y	
10-59	Subpart GGG – Equipment Leaks of VOC in Petroleum Refineries	Y	
BAAQMD ·	Hazardous Pollutants - National Emission Standard for Benzene	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
Regulation 11 - Rule 12	Emissions From Benzene Transfer Operations and Benzene Waste Operations incorporated by reference (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)		
NSPS Title 40 CFR Part 60 Subpart VV	NSPS Subpart VV for Equipment Leaks of VOC in SOCMIs before 11/7/2006 (06/02/2008) Applicability specified by 40 CFR Part 60, Subpart GGG or 40 CFR Part 63, Subpart CC		
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	
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	

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
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 60.483-2	Y	
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 SO2MI 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	

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
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 60.482-10a, 60.483a – use Method 21	Y	
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 (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	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
	commenced after January 4, 1983 and on or before November 7, 2006		
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 Subpart VV (60.485) except per 60.593	Y	
60.592(e)	Standards: comply with Subpart VV (60.486 and 60.487)	Y	
60.593	Exceptions	Y	
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	

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
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 Subpart VVa (60.485a) except per 60.593a	Y	
60.592a(e)	Standards: comply 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	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
	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.		
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	
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	
61.242-1	Standards: General	Y	
61.242-1(a)	Standards: General – comply with 61.242-1 to 61.242-11 except as provided in 61.243 and 61.244	Y	
61.242-1(b)	Standards: General – determination of compliance	Y	
61.242-1(c)	Standards: General – alternative means of emission limitation	Y	
61.242-1(d)	Standards: General – tags specific to this regulation required	Y	
61.242-1(d)	Standards: General – exemption for equipment in vacuum service	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	

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
61.242-8(b)	Standards: Connectors: Leak if >= 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	
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 (06/23/200306/30/2010)		
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	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
	storage tanks are not equipment leaks.		
<u>63.640(l)</u>	<u>Additional unit meeting criteria in 40 CFR 63.640(c)(1)-(8)</u>	<u>Y</u>	
<u>63.640(l)(4)</u>	<u>Pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, or instrumentation systems added to existing sources are subject to equipment leak requirements for existing sources in 63.648. No NOCS is required for added equipment</u>	<u>Y</u>	
63.640(p)	Applicability and Designation of Affected Source--Overlap of Subpart CC for equipment leaks	Y	
<u>63.640(p)(1)</u>	<u>Overlap with 40 CFR Part 60 and 40 CFR Part 61 Subparts promulgated prior to September 4, 2007 – comply with 40 CFR 63 Subpart CC only</u>	<u>Y</u>	
<u>63.640(p)(2)</u>	<u>Overlap with 40 CFR Part 60 Subpart GGGa – comply with Subpart GGGa</u>	<u>Y</u>	
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). <u>New source comply with 40 CFR Part 63, Subpart H</u>	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 reciprocating pumps in light liquid service	Y	
63.648(g)	Equipment Leak Standards—Exemption for 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 compressors	Y	
<u>63.655(d)</u> 63.654(d)	Reporting and Recordkeeping Requirements for Equipment Leaks	Y	
<u>63.655(d)(1)</u> 63.654(d)(1)	Reporting and Recordkeeping Requirements for Equipment Leaks; Comply with 60.486 and 60.487 except for 63.654 <u>63.655</u> (d)(1)(i)	Y	
<u>63.655(d)(1)(i)</u> 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	
<u>63.655(d)(3)</u> 63.654(d)(3)	Reporting and Recordkeeping Requirements for Equipment Leaks;	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
54(d)(3)	Records of hydrogen service determinations		
63.655(d)(4) 63.6 54(d)(4)	Reporting and Recordkeeping Requirements for Equipment Leaks; Records of leakless valves	Y	
63.655(d)(5) 63.6 54(d)(5)	Reporting and Recordkeeping Requirements for Equipment Leaks; Records of low use equipment	Y	
63.655(d)(6) 63.6 54(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	
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	

IV. Source Specific Applicable Requirements

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
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	

Table IV – ~~J13~~
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (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	Y	

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Tanks in Operation; No product movement, Minimize emissions		
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	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	

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
8-5-401	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	

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

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, 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	
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	

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

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

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

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

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	Compliance--External FR primary seal requirements		
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	
63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title	NESHAPS for Petroleum Refineries (06/23/200306/30/2010)		

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40CFR Part 63 Subpart CC			
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(a)	Storage Vessel Provisions--Group 1	Y	
63.646(b)	Storage Vessel Provisions--Definition of terms, Definition and determination of Group 1 storage vessels	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)	Storage Vessel Provisions--Applicable references	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-- <u>covers and lids; rim space vents; automatic bleeder vents</u>	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(g)	Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart	Y	
63.646(h)	References in §§63.119 through 63.121 to §63.122(g)(1), §63.151, and references to initial notification requirements do not apply	Y	
63.646(i)	References to the Implementation Plan in §63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of Compliance Status report.	Y	
63.646(j)	References to the Notification of Compliance Status report in §63.152(b) mean the Notification of Compliance Status required by	Y	

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	§63.655(f).		
63.646(k)	References to the Periodic Reports in §63.152(c) mean the Periodic Report required by §63.655(g).	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	N	
63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	N	
63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status requirements--Reporting--storage vessels	N	
63.655(e)	<u>Required Reports</u>	Y	
63.655(g)(1)63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
663.655(g)(3)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	N	
63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	N	
63.655(h)(2)63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections--NOTE: notification requirement has been waived per 63.655(h)(2)(ii).	Y	
63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	N	

IV. Source Specific Applicable Requirements

Table IV -- J13
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-86 (TK-1758)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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	
63.655(i)(1)63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(i)63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels - <u>Records related to gaskets, slotted membranes, and sleeve seals are not required for storage vessels in existing sources</u>	Y	
63.655(i)(1)(ii)	<u>Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels - comply with 63.655(e) instead of 63.122</u>	<u>Y</u>	
63.655(i)(5)	<u>Reporting and Recordkeeping Requirements--Record retention</u>	<u>Y</u>	

Table IV -- J24
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	Organic Compounds, Storage of Organic Liquids (10/18/2006)		

IV. Source Specific Applicable Requirements

Table IV – J24
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
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	
8-5-111.3	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	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	

IV. Source Specific Applicable Requirements

Table IV – J24
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
8-5-304.4	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	
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	

IV. Source Specific Applicable Requirements

Table IV - J24
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
8-5-321.3	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	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 Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP -	Y	

IV. Source Specific Applicable Requirements

Table IV – J24
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
	Retain 24 months		
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	

IV. Source Specific Applicable Requirements

Table IV – J24
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 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	
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 63 Subpart CC		

IV. Source Specific Applicable Requirements

Table IV – J24
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
63.119(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	
63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	

IV. Source Specific Applicable Requirements

Table IV – J24
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
63.120(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	
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	

IV. Source Specific Applicable Requirements

Table IV – J24
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
63.120(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 (06/23/2003/06/30/2010)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(a)	Storage Vessel Provisions--Group 1	Y	
<u>63.646(b)</u>	<u>Storage Vessel Provisions—Definition of terms, Definition and determination of Group 1 storage vessels</u>	<u>Y</u>	
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	

IV. Source Specific Applicable Requirements

Table IV – J24
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(c)	Storage Vessel Provisions--40 CFR Part 63 exclusions for storage vessels	Y	
63.646(d)	Storage Vessel Provisions—Applicable References	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— <u>covers and lids; rim space vents; automatic bleeder vents</u>	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(g)	Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart	Y	
63.646(h)	References in §§63.119 through 63.121 to §63.122(g)(1), §63.151, and references to initial notification requirements do not apply	Y	
63.646(i)	References to the Implementation Plan in §63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of Compliance Status report.	Y	
63.646(j)	References to the Notification of Compliance Status report in §63.152(b) mean the Notification of Compliance Status required by §63.655(f).	Y	
63.646(k)	References to the Periodic Reports in §63.152(c) mean the Periodic Report required by §63.655(g).	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	Y	

IV. Source Specific Applicable Requirements

Table IV – J24
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
	status report requirements		
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	
<u>63.655(e)</u>	<u>Required Reports</u>	<u>Y</u>	
63.655(g)(1)63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
63.655(g)(3)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	
63.655(h)(2)63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections– <u>NOTE: notification requirement has been waived per 63.655(h)(2)(ii).</u>	Y	

IV. Source Specific Applicable Requirements

Table IV ~~J24~~
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(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	
63.655(i)(1) 63-654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(i) 63-654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(ii)	<u>Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels - comply with 63.655(e) instead of 63.122</u>	<u>Y</u>	
63.655(i)(5)	<u>Reporting and Recordkeeping Requirements—Record retention</u>	<u>Y</u>	

Table IV ~~J36~~
Source-Specific Applicable Requirements
External Floating Roof Tanks, MACT Group 1
S-83, S-84, S-92 (TK-1755, TK-1756, TK-1771)

IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 5	Organic Compounds, Storage of Organic Liquids (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	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	

IV. Source Specific Applicable Requirements

Table IV – J36
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	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	
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	
8-5-321.4	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	

IV. Source Specific Applicable Requirements

Table IV - J36
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
8-5-331	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	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, Tank in compliance prior to notification	Y	

IV. Source Specific Applicable Requirements

Table IV – J36
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
8-5-111.5	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	
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	

IV. Source Specific Applicable Requirements

Table IV – J36
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
8-5-503	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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV – J36
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
	Compliance--External FR seal inspections prior to tank refill after service		
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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV – J36
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
	emptied		
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 63 Part Subpart CC	NESHAPS for Petroleum Refineries (06/23/200306/30/2010)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(a)	Storage Vessel Provisions--Group 1	Y	
63.646(b)	Storage Vessel Provisions--Definition of terms, Definition and determination of Group 1 storage vessels	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)	Storage Vessel Provisions--Applicable references	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	

IV. Source Specific Applicable Requirements

Table IV – J36
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
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(g)	Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart	Y	
63.646(h)	References in §§63.119 through 63.121 to §63.122(g)(1), §63.151, and references to initial notification requirements do not apply	Y	
63.646(i)	References to the Implementation Plan in §63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of Compliance Status report.	Y	
63.646(j)	References to the Notification of Compliance Status report in §63.152(b) mean the Notification of Compliance Status required by §63.655(f).	Y	
63.646(k)	References to the Periodic Reports in §63.152(c) mean the Periodic Report required by §63.655(g).	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	
63.655(e)	Required reports	Y	
63.655(g)(1) 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
63.655(g)(3) 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	Y	

IV. Source Specific Applicable Requirements

Table IV – J36
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
	vessels with external floating roofs		
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	
63.655(h)(2)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	
63.655(i)(1)63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(i)63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(ii)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels – comply with 63.655(e) instead of 63.122	Y	
63.655(i)(5)	Reporting and Recordkeeping Requirements--Record retention	Y	

IV. Source Specific Applicable Requirements

Table IV - J47
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 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	

IV. Source Specific Applicable Requirements

Table IV - J47
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
8-5-304.5	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	
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--	Y	

IV. Source Specific Applicable Requirements

Table IV - J47
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
	welded tanks		
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 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	

IV. Source Specific Applicable Requirements

Table IV - J47
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
8-5-605.1	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	
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	

IV. Source Specific Applicable Requirements

Table IV - J47
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
8-5-320.5.2	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--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	

IV. Source Specific Applicable Requirements

Table IV - J47
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
63.119(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 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	

IV. Source Specific Applicable Requirements

Table IV - J47
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)(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	
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	

IV. Source Specific Applicable Requirements

Table IV ~~J47~~
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
63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/200306/30/2010)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.646(a)	Storage Vessel Provisions--Group 1	Y	
63.646(b)	Storage Vessel Provisions--Definition of terms. Definition and determination of Group 1 storage vessels	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)	Storage Vessel Provisions--Applicable references	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-- <u>covers and lids; rim space vents; automatic bleeder vents</u>	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(g)	Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart	Y	
63.646(h)	References in §§63.119 through 63.121 to §63.122(g)(1), §63.151, and references to initial notification requirements do not apply	Y	
63.646(i)	References to the Implementation Plan in §63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of	Y	

IV. Source Specific Applicable Requirements

Table IV - J47
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
	<u>Compliance Status report.</u>		
<u>63.646(j)</u>	<u>References to the Notification of Compliance Status report in §63.152(b) mean the Notification of Compliance Status required by §63.655(f).</u>	<u>Y</u>	
<u>63.646(k)</u>	<u>References to the Periodic Reports in §63.152(c) mean the Periodic Report required by §63.655(g).</u>	<u>Y</u>	
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	
<u>63.655(e)</u>	<u>Required Reports</u>	<u>Y</u>	
63.655(g)(1)63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
<u>63.655(g)(3)63.654(g)(3)</u>	<u>Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs</u>	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	

IV. Source Specific Applicable Requirements

Table IV - J47
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	
63.655(h)(2)63-654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections-- NOTE: notification requirement has been waived per 63.655(h)(2)(ii).	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	
63.655(i)(1)63-654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(i)63-654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(ii)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels - comply with 63.655(e) instead of 63.122	Y	
63.655(i)(5)	Reporting and Recordkeeping Requirements--Record retention	Y	

IV. Source Specific Applicable Requirements

Table IV -- J58
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	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	

IV. Source Specific Applicable Requirements

Table IV -- J58
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	

IV. Source Specific Applicable Requirements

Table IV -- J58
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 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)		

IV. Source Specific Applicable Requirements

Table IV -- J58
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	
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; 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	
8-5-322	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 -- J58
Source-Specific Applicable Requirements
NSPS Subpart K External Floating Roof Tank
S-163 (TK-1732)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501	Records	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
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	

IV. Source Specific Applicable Requirements

Table IV -- J58
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

Table IV -- J58
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 (06/23/200306/30/2010)		
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	
63.646(a)	Storage Vessel Provisions--Group 1	Y	

IV. Source Specific Applicable Requirements

Table IV -- J58
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
<u>63.646(b)</u>	<u>Storage Vessel Provisions—Definition of terms, Definition and determination of Group 1 storage vessels</u>	<u>Y</u>	
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	
<u>63.646(d)</u>	<u>Storage Vessel Provisions—Applicable references</u>	<u>Y</u>	
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	
<u>63.646(g)</u>	<u>Failure to perform inspections and monitoring required by this section shall constitute a violation of the applicable standard of this subpart</u>	<u>Y</u>	
<u>63.646(h)</u>	<u>References in §§63.119 through 63.121 to §63.122(g)(1), §63.151, and references to initial notification requirements do not apply</u>	<u>Y</u>	
<u>63.646(i)</u>	<u>References to the Implementation Plan in §63.120, paragraphs (d)(2) and (d)(3)(i) shall be replaced with the Notification of Compliance Status report.</u>	<u>Y</u>	
<u>63.646(i)</u>	<u>References to the Notification of Compliance Status report in §63.152(b) mean the Notification of Compliance Status required by §63.655(f).</u>	<u>Y</u>	
<u>63.646(k)</u>	<u>References to the Periodic Reports in §63.152(c) mean the Periodic Report required by §63.655(g).</u>	<u>Y</u>	
63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	

IV. Source Specific Applicable Requirements

Table IV -- J58
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
63.654(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	
63.655(e)	Required Reports	Y	
63.655(g)(1)63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
63.655(g)(3)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)(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	
63.655(h)(2)63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections-- <u>NOTE: notification requirement has been waived per 63.655(h)(2)(ii).</u>	Y	
63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

IV. Source Specific Applicable Requirements

Table IV -- J58
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
63.654(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	
63.655(i)(1)63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(i)63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(ii)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels - comply with 63.655(e) instead of 63.122	Y	
63.655(i)(5)	Reporting and Recordkeeping Requirements--Record retention	Y	

Table IV -- J69
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)		

IV. Source Specific Applicable Requirements

Table IV – J69
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
8-5-111	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	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	

IV. Source Specific Applicable Requirements

Table IV – J69
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
8-5-304.5	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	
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	

IV. Source Specific Applicable Requirements

Table IV – J69
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
8-5-321.3	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	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	<u>NY</u>	
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	Y	

IV. Source Specific Applicable Requirements

Table IV – J69
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
	Replacement Records – Retain 10 years		
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	
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	

IV. Source Specific Applicable Requirements

Table IV – J69
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
8-5-320.2	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	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 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-503	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	
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	

IV. Source Specific Applicable Requirements

Table IV – J69
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
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	
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	

IV. Source Specific Applicable Requirements

Table IV – J69
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
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 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	

IV. Source Specific Applicable Requirements

Table IV -- J69
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
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(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 (06/23/2003/06/30/2010)		
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	

IV. Source Specific Applicable Requirements

Table IV -- J69
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
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 Condition 10797	For S-207 Only		
Part 1	Total fugitive POC emissions. [Cumulative Increase]	Y	
Part 4	TK-1740 (S-207) material storage limits. (Cumulative Increase, BACT, Offsets, Toxics)	Y	
Part 6	TK-1740 (S-207) throughput limit. (Cumulative Increase)	Y	
Part 7	TK-1740 (S-207) recordkeeping (Cumulative Increase)	Y	
BAAQMD Condition 20820	For S-1047 and S-1048 Only		
Part 23	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)	Y	
Part 27	Daily throughput limits (Recordkeeping)	Y	
Part 29	NMOC offset requirements (Offsets)	Y	
Part 30	Comply with 40 CFR Part 60, Subpart Kb and BAAQMD Regulation 8-5 (BACT, NSPS)	Y	
Part 31	Store only specified materials (Cumulative Increase, Toxics)	Y	
Part 32	Combined material throughput limit (Cumulative Increase)	Y	
Part 33	Daily throughput records (Recordkeeping)	Y	

IV. Source Specific Applicable Requirements

Table IV -- ~~J711~~
Source-Specific Applicable Requirements
Internal Floating Roof Tank, 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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J711~~
Source-Specific Applicable Requirements
Internal Floating Roof Tank, MACT Exempt
S-89 (TK-1761)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	2/1/1993		
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 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	Y	

IV. Source Specific Applicable Requirements

**Table IV - ~~J711~~
 Source-Specific Applicable Requirements
 Internal Floating Roof Tank, MACT Exempt
 S-89 (TK-1761)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	liquid mounted except as provided in 8-5-305.1.3		
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	
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	<u>NY</u>	

IV. Source Specific Applicable Requirements

**Table IV - ~~J711~~
 Source-Specific Applicable Requirements
 Internal Floating Roof Tank, MACT Exempt
 S-89 (TK-1761)**

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

IV. Source Specific Applicable Requirements

**Table IV - ~~J711~~
 Source-Specific Applicable Requirements
 Internal Floating Roof Tank, MACT Exempt
 S-89 (TK-1761)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	requirements		
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 (06/23/200306/30/2010)		
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	

IV. Source Specific Applicable Requirements

**Table IV - ~~J812~~
 Source-Specific Applicable Requirements
 Internal Floating Roof Tanks,
 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	
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	

IV. Source Specific Applicable Requirements

**Table IV - ~~J812~~
 Source-Specific Applicable Requirements
 Internal Floating Roof Tanks,
 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
8-5-305.2	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	
8-5-320.5	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	

IV. Source Specific Applicable Requirements

**Table IV - ~~J812~~
 Source-Specific Applicable Requirements
 Internal Floating Roof Tanks,
 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
8-5-321.3.2	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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV - J812
Source-Specific Applicable Requirements
Internal Floating Roof Tanks,
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
	Replacement Records - Retain 10 years		
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	
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	

IV. Source Specific Applicable Requirements

Table IV - ~~J812~~
Source-Specific Applicable Requirements
Internal Floating Roof Tanks,
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
8-5-320.2	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	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003/06/30/2010)		
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	

IV. Source Specific Applicable Requirements

Table IV -- J913
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	
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	N	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J913~~
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
	2/1/1993		
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 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	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J913~~
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
	liquid mounted except as provided in 8-5-305.1.3		
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	
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	<u>NY</u>	

IV. Source Specific Applicable Requirements

Table IV - ~~J913~~
Source-Specific Applicable Requirements
NSPS Subpart Kb Internal Floating Roof Tank
S-210 (TK-1820)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.1	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	
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	Y	

IV. Source Specific Applicable Requirements

Table IV - J913
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
	requirements		
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 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	
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	

IV. Source Specific Applicable Requirements

Table IV ~~J913~~
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
60.110b(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 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	Y	

IV. Source Specific Applicable Requirements

**Table IV - ~~J913~~
 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
	emptied and degassed		
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	
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 (06/23/200306/30/2010)		
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	Y	

IV. Source Specific Applicable Requirements

**Table IV -- ~~J913~~
 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
	Storage Vessels--Additional requirements for Kb storage vessels		
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)	Y	
Part C2	Total POC emissions from S-210 Storage Tank [Cumulative Increase, BACT, Offsets]	Y	
Part C5	Ethanol storage restricted to TK-1820 (S-210). (Cumulative Increase, offsets, toxics)	Y	
Part C6	Recordkeeping ethanol tank TK-1820 (S-210). (Cumulative Increase)	Y	

**Table IV -- ~~J1104~~
 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	Y	

IV. Source Specific Applicable Requirements

Table IV -- J1104
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
	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	
8-5-303	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	

IV. Source Specific Applicable Requirements

Table IV -- J1104
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
8-5-307.1	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 <u>or with routine source test requirements in permit conditions</u>	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	

IV. Source Specific Applicable Requirements

Table IV -- J1104
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
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	
8-5-501	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 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003/06/30/2010)		

IV. Source Specific Applicable Requirements

Table IV -- J1104
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
63.640(c)(23)	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	

Table IV - J115
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 (06/30/2010/06/23/2003)		
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)	Y	
Part 2	Refinery vapor pressure requirement for organic liquids. (Basis: Regulation 8, Rule 5)	Y	

IV. Source Specific Applicable Requirements

Table IV - J115
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
Part 3	Recordkeeping requirements (8-5-117)	Y	

Table IV - J126
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	

IV. Source Specific Applicable Requirements

Table IV - J126
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
8-5-112.4	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	
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	N	

IV. Source Specific Applicable Requirements

Table IV - J126
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
	Reports		
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	
8-5-501.3	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 <u>or with routine source test requirements in permit conditions</u>	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	

IV. Source Specific Applicable Requirements

Table IV - J126
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
8-5-117	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	

Table IV - J137
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	

IV. Source Specific Applicable Requirements

Table IV - J137
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
8-5-111.2	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	
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	

IV. Source Specific Applicable Requirements

Table IV - J137
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
8-5-306.1	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	NY	
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 <u>or with routine source test requirements in permit conditions</u>	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	

IV. Source Specific Applicable Requirements

Table IV - J137
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
8-5-606.2	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	
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 Condition 7559			

IV. Source Specific Applicable Requirements

Table IV - J137
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
Part 1	Abatement requirements spent acid tank (TK-2712) (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - J148
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	

IV. Source Specific Applicable Requirements

Table IV - J148
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
8-5-119	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	
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 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; PV valve setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas <u>or with routine source test requirements in permit conditions</u>	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

IV. Source Specific Applicable Requirements

Table IV - J148
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 - J148
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 - J148
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	Superseded by Condition 24197 Upon Startup of S-1061 and S-1062		
Part 1	CFP pumps in light liquid hydrocarbon service (Cumulative Increase, Offsets, Toxics)	Y	
Part 4	CFP hydrocarbon flow control valves (Basis: BACT)	Y	
Part 5	CFP all other hydrocarbon valves greater than 2 inches (BACT)	Y	
Part 7	CFP flanges installed in the piping systems (BACT, Offsets, Cumulative Increase, Toxics)	Y	
Part 8	CFP hydrocarbon centrifugal compressors (BACT, Offsets, Cumulative Increase, Toxics, NSPS)	Y	
Part 11	CFP process drains (BACT)	Y	

IV. Source Specific Applicable Requirements

Table IV - J148
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 12	Total fugitive POC emissions from all new and modified equipment (Cumulative Increase)	Y	
Part 42	S-227 abatement requirements (Cumulative Increase, Offsets, Toxics)CFR	Y	
Part 43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]	Y	
Part 44	S227 material storage limits. (Cumulative Increase, Offsets, BACT, Toxics)	Y	
Part 45	S227 control device requirements. (RACT)	Y	
BAAQMD Condition 24197	Supersedes Condition 10574		Upon Startup of S-1061 and S-1062
Part 1	Pumps in light liquid hydrocarbon service (Cumulative Increase, Offsets, Toxics)	Y	
Part 4	Hydrocarbon flow control valves (Basis: BACT)	Y	
Part 5	All other hydrocarbon valves greater than 2 inches (BACT)	Y	
Part 7	Flanges installed in the piping systems (BACT, Offsets, Cumulative Increase, Toxics)	Y	
Part 8	Hydrocarbon centrifugal compressors (BACT, Offsets, Cumulative Increase, Toxics, NSPS)	Y	
Part 11	Process drains (BACT)	Y	
Part 12	Total fugitive POC emissions from all new and modified equipment (Cumulative Increase)	Y	
Part 42	S-227 abatement requirements (Cumulative Increase, Offsets, Toxics)	Y	
Part 43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]	Y	
Part 44	S227 material storage limits. (Cumulative Increase, Offsets, BACT, Toxics)	Y	
Part 45	S227 control device requirements. (RACT)	Y	

IV. Source Specific Applicable Requirements

Table IV - J159
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 06/30/2010)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.641	Definitions:	Y	
63.646(b)	Storage Vessel Provisions—Definition of terms, Definition and determination of Group 1 storage vessels	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	
63.655(i)(1)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	
63.655(i)(1)(iv)63-654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels — Group 2 storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - J159
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
63.655(i)(5)	Reporting and Recordkeeping Requirements—Record retention	<u>Y</u>	
BAAQMD Condition 20762			
Part 1	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117)	<u>Y</u>	
Part 2	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 -- J1620
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	

IV. Source Specific Applicable Requirements

Table IV -- J1620
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
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 06/30/2010)		
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	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	

Table IV -- J1724
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;	N	

IV. Source Specific Applicable Requirements

Table IV - ~~J1721~~
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
	Tank in compliance at time of notification		
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	
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 - ~~J1721~~
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
8-5-403.1	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 - 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 <u>or with routine source test requirements in permit conditions</u>	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;	Y	

IV. Source Specific Applicable Requirements

Table IV ~~J1721~~
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 with Section 8-5-328		
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	
8-5-501	Records	Y	
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 (06/23/2003/06/30/2010)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.641	Definitions:	Y	
63.646(b)	Storage Vessel Provisions—Definition of terms, Definition and determination of Group 1 storage vessels	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	

IV. Source Specific Applicable Requirements

Table IV – ~~J1721~~
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
63.655(i)(1) 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	
63.655(i)(1)(iv) 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels – <u>Group 2 storage vessels</u>	Y	
63.655(i)(5)	<u>Reporting and Recordkeeping Requirements—Record retention</u>	<u>Y</u>	

Table IV – ~~J1823~~
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	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J1823~~
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 in Operation; No product movement, Minimize emissions		
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	N	

IV. Source Specific Applicable Requirements

Table IV - ~~J1823~~
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
	Reports		
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	
8-5-501.3	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 <u>or with routine source test requirements in permit conditions</u>	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;	Y	

IV. Source Specific Applicable Requirements

Table IV – J1823
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
	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	
8-5-303	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	

Table IV – J1927
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
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IV. Source Specific Applicable Requirements

Table IV - ~~J1927~~
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

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

IV. Source Specific Applicable Requirements

Table IV – ~~J1927~~
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-307	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	NY	
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	

IV. Source Specific Applicable Requirements

Table IV - ~~J1927~~
Source-Specific Applicable Requirements
Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions
S-158 (TK-2902)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8-5-606.3	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 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)	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J1927~~
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)	Y	

Table IV - ~~J208~~
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; 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	

IV. Source Specific Applicable Requirements

Table IV - J208
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
	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 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	
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	
8-5-501.3	Records; Retention	N	

IV. Source Specific Applicable Requirements

Table IV - J208
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
8-5-602	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	
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	
8-5-501	Records	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

IV. Source Specific Applicable Requirements

Table IV - ~~J291~~
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	Refinery vapor pressure limits for organic liquids. (Basis: Regulation 8-5-117)	<u>Y</u>	
Part 2	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 - ~~J230~~
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)		

IV. Source Specific Applicable Requirements

**Table IV – ~~J2230~~
 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
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	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	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/2003/06/30/2010)		
63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
63.641	Definitions	Y	
63.646(b)	Storage Vessel Provisions—Definition of terms, Definition and determination of Group 1 storage vessels	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	
63.655(i)(1)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 -- ~~J2230~~
 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
63.655(i)(1)(iv) 63-6 54(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels when in MACT Group 2 service	Y	
63.655(i)(5)	<u>Reporting and Recordkeeping Requirements—Record retention</u>	<u>Y</u>	
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	

**Table IV -- ~~J2331.2~~
 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; General Requirements (12/05/2007)		
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	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2331-2~~
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
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emission	Y	
BAAQMD Condition 20820	Source S-236 Only		
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 -- ~~J2432~~
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	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
8-5-112.1	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	
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--	Y	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
8-5-320.4.1	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 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	
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 -- ~~J2432~~
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	
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	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	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
8-5-111.6	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	
8-5-304	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, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.5	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	
8-5-322	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	Inspection Requirements for External Floating Roof Tanks	Y	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
8-5-401.1	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	
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)		
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	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
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	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
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	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	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
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	
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 (06/23/2003/06/30/2010)		
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	
63.655(a) 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	Y	

IV. Source Specific Applicable Requirements

Table IV -- ~~J2432~~
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
	comply with those specified in paragraph (o)(2)(ii) of 63.640.		

Table IV -- ~~J2534~~
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 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	

IV. Source Specific Applicable Requirements

Table IV -- J2534
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; 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	
8-5-305	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 gauging wells-total secondary seal gap must include well gap	Y	

IV. Source Specific Applicable Requirements

Table IV -- J2534
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
8-5-321	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	
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	

IV. Source Specific Applicable Requirements

Table IV -- J2534
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
8-5-501.3	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	
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	

IV. Source Specific Applicable Requirements

Table IV -- J2534
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
8-5-320.5	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	
8-5-322	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	
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 -- J2534
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.112b(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 -- J2534
Source-Specific Applicable Requirements
Internal Floating Roof Tanks with Double Seals - Benzene Wastewater
S-101, S-103, S-105 (TK-1791, TK-1793, TK-1796)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
60.115b(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 -- J2534
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 (06/23/2003/06/30/2010)		
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	
63.655(a) 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 25417	S-101 Only		
<u>Part 1</u>	<u>Throughput limit (Cumulative Increase)</u>	<u>Y</u>	
<u>Part 2a</u>	<u>Storage of alternate liquids – POC limit (Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 2b</u>	<u>Storage of alternate liquids – Toxic Screening Threshold (Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 3a</u>	<u>Recordkeeping – Liquids stored (Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 3b</u>	<u>Recordkeeping – Storage of alternate material emissions and toxics (Cumulative Increase, Toxics)</u>	<u>Y</u>	
<u>Part 3c</u>	<u>Recordkeeping – Monthly throughput and/or emissions (Cumulative Increase, Toxics)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

IV. Source Specific Applicable Requirements

Table IV – J2635
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)		
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	

IV. Source Specific Applicable Requirements

Table IV – J2635
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
8-5-301	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	N	

IV. Source Specific Applicable Requirements

Table IV – J2635
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
	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	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	
8-5-328	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	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	<u>NY</u>	

IV. Source Specific Applicable Requirements

Table IV – J2635
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
8-5-501.1	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	
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	

IV. Source Specific Applicable Requirements

Table IV – J2635
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
8-5-305.5	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 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	Y	

IV. Source Specific Applicable Requirements

Table IV – J2635
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
	(Adopted 07/18/1990; Subpart FF last amended 01/05/1994)		
NSPS Title 40 CFR Part 60 Subpart Kb	NSPS Subpart Kb for Tanks (10/15/2003)		
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	

IV. Source Specific Applicable Requirements

**Table IV – J2635
 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
60.113b(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(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	

IV. Source Specific Applicable Requirements

Table IV – J2635
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
60.116b(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)(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 (06/23/2003/06/30/2010)		
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	
63.655(a) 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR Part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

IV. Source Specific Applicable Requirements

Table IV – J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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; 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	

IV. Source Specific Applicable Requirements

Table IV – J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
8-5-301	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	NY	
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	

IV. Source Specific Applicable Requirements

Table IV – J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas <u>or with routine source test requirements in permit conditions</u>	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	

IV. Source Specific Applicable Requirements

Table IV – J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
8-5-301	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	
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)		
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	

IV. Source Specific Applicable Requirements

Table IV -- J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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)	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	
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	

IV. Source Specific Applicable Requirements

Table IV – J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
60.116b(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 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	
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	
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	
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)(ii)	Standards: Closed-Vent Systems and Control Devices Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
61.349(b)	Standards: Closed-Vent Systems and Control Devices Operated at	Y	

IV. Source Specific Applicable Requirements

Table IV – J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
	all times.		
61.349(c)(1)	Standards: Closed-Vent Systems and Control Devices 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)	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(d)	Monitoring of Operations; Monitor non-regenerated carbon adsorption system	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 (06/23/200306/30/2010)		
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	

IV. Source Specific Applicable Requirements

Table IV -- J2738
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
63.655(a) 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:		
Part1	Abatement requirements [Basis: Cumulative Increase]	Y	
Part 2	NMHC mass emissions limit. [Basis: Regulation 8, Rule 22-1-403]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer. [Basis: Cumulative Increase]	Y	
Part 4	<u>NMHC determination</u> - Recordkeeping [Basis: Cumulative Increase]	Y	
Part 7	A-36 VOC <u>and flow</u> monitoring device requirements. [Basis: Cumulative Increase]	Y	
Part 8	A-65 propane firing limit [Basis: cumulative Cumulative increase Increase]	Y	
Part 9	A-65 NOx emissions limit [Basis: RACT, Source Test Method 13A]	Y	
Part 10	A-65 CO emissions limit [Basis: RACT, Source Test Method 6]	Y	
Part 11	A-65 minimum temperature requirement [basis: Regulation 2-1-403]	Y	
Part 12	A-65 temperature monitoring device requirements [basis: Regulation 2-1-403]	Y	
Part 13	A-65 temperature excursion exemption [<u>Regulation 2-1-403</u>]	Y	
Part 14	A-65 temperature excursion recordkeeping [<u>Regulation 2-1-403</u>]	Y	
Part 15	A-65 <u>operation</u> recordkeeping [<u>Recordkeeping</u>]	Y	
Part 16	A-36 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	Y	
<u>Part 17</u>	<u>A-65 destruction efficiency [Cumulative Increase; BACT]</u>	<u>Y</u>	
BAAQMD Condition 24245			
<u>Part 47</u>	<u>Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)</u>	<u>Y</u>	
<u>Part 48</u>	<u>Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)</u>	<u>Y</u>	
<u>Part 49</u>	<u>Replace secondary carbon canister immediately when</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - ~~J2738~~
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tanks
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
	breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)		
Part 50	Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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; 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	

IV. Source Specific Applicable Requirements

Table IV – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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
8-5-301	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	
8-5-306	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	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 – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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
8-5-501.3	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 <u>or with routine source test requirements in permit conditions</u>	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	Y	

IV. Source Specific Applicable Requirements

Table IV – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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
	7 days		
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	
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 – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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
60.110b(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)(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	

IV. Source Specific Applicable Requirements

Table IV -- J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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(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	
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	
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	
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	

IV. Source Specific Applicable Requirements

Table IV -- J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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
61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	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	
61.349(a)(1)(ii)	Standards: Closed-Vent Systems and Control Devices; Bypass line requirements	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)(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	
NESHAPS Title 40 CFR Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/23/200306/30/2010)		
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 – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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	
63.655(a) 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. [Basis:-Cumulative Increase]	Y	
Part 2	NMHC mass emissions limit. [Basis:-Regulation 8, Rule 22-1-403]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer. [Basis:-Cumulative Increase]	Y	
Part 4	<u>NMHC determination</u> - Recordkeeping [Basis:-Cumulative Increase]	Y	
Part 7	A-36 VOC <u>and flow</u> monitoring device requirements. [Basis:-Cumulative Increase]	Y	
Part 8	A-65 propane firing limit [Basis:-cumulative-Cumulative increase] <u>Increase</u>]	Y	
Part 9	A-65 NOx emissions limit [Basis:-RACT, Source Test Method 13A]	Y	
Part 10	A-65 CO emissions limit [Basis:-RACT, Source Test Method 6]	Y	
Part 11	A-65 minimum temperature requirement [basis:-Regulation 2-1-403]	Y	
Part 12	A-65 temperature monitoring device requirements [basis:-Regulation 2-1-403]	Y	
Part 13	A-65 temperature excursion exemption [<u>Regulation 2-1-403</u>]	Y	
Part 14	A-65 temperature excursion recordkeeping [<u>Regulation 2-1-403</u>]	Y	
Part 15	A-65 <u>operation</u> recordkeeping [<u>Recordkeeping</u>]	Y	
Part 16	A-36 carbon canister replacement requirement. [<u>Consent Decree</u>]	Y	

IV. Source Specific Applicable Requirements

Table IV – J2840
Source-Specific Applicable Requirements
NSPS Subpart Kb Fixed Roof Tank
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
	X.E. Paragraphs 141-145		
Part 17	A-65 destruction efficiency [Cumulative Increase; BACT]	Y	
BAAQMD Condition 24245			
Part 47	Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)	Y	
Part 48	Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)	Y	
Part 49	Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)	Y	
Part 50	Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)	Y	

Table IV – J2941
Source-Specific Applicable Requirements
Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas
S-208 (D-920)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (07/20/2005)		
8-2-301	Miscellaneous Operations	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD · Regulation 11 · Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations 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 (12/01/2004)		
61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	

IV. Source Specific Applicable Requirements

**Table IV – ~~J2941~~
 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
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 (06/23/200306/30/2010)		
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)	Y	
Part 4	Annual throughput limit coker feed drum (D-920) (Cumulative Increase)	Y	
Part 5	Recordkeeping coker feed drum (D-920) (Cumulative Increase)	Y	

**Table IV – J3042
 Source-Specific Applicable Requirements
 MACT EXEMPT 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	Y	

IV. Source Specific Applicable Requirements

Table IV – J3042
Source-Specific Applicable Requirements
MACT EXEMPT 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
	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	
8-5-119	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	

IV. Source Specific Applicable Requirements

Table IV – J3042
Source-Specific Applicable Requirements
MACT EXEMPT 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
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	NY	
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 <u>or with routine source test requirements in permit conditions</u>	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 – J3042
Source-Specific Applicable Requirements
MACT EXEMPT 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
	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	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-501	Records	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Gas Tight Determination	Y	

Table IV – J3143
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	

IV. Source Specific Applicable Requirements

Table IV – J3143
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
8-5-111.1	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	
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	N	

IV. Source Specific Applicable Requirements

Table IV – J3143
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
	efficiency >= 95%		
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	
8-5-404	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; 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 or with routine source test requirements in permit conditions	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,	Organic Compounds, Storage of Organic Liquids (06/05/2003)		

IV. Source Specific Applicable Requirements

Table IV – J3143
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
Rule 5	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 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	
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	Gas Tight Determination	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A-57 AND A-68, WWTP THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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 (09/08/1998)		
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 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	N	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A-57 AND A-68, WWTP THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	efficiency of 95% by weight		
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: Combined collection and destruction efficiency of 70% by weight	Y	
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	
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 Part 60 Subpart J	Standards of Performance for Petroleum Refineries (06/24/2008)		
60.101(d)	Fuel gas does not include vapors collected and combusted to comply with wastewater provisions in §60.692, 61.343 through	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A-57 AND A-68, WWTP THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	61.348, or 63.647		
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 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	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A-57 AND A-68, WWTP THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.349(b)	Standards: Closed-Vent Systems and Control Devices; Control device requirements; Enclosed combustion 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; 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: 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	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A-57 AND A-68, WWTP THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(f)(1)	Recordkeeping Requirements: certification of performance level	Y	
61.356(f)(3)	Recordkeeping Requirements: Requirements for performance tests	Y	
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 (06/23/2003/06/30/2010) 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	
63.655(a) 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 Consolidated Wastewater Condition		
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:	Y	

IV. Source Specific Applicable Requirements

Table IV – K1
Source-specific Applicable Requirements
A-57 AND A-68, WWTP THERMAL OXIDIZERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Cumulative Increase}		
Part 3	A-57 and A-68 NOx emissions Limit (Basis: BAAQMD 2-2-112)[RACT, Source Test Method 13A]	Y	
Part 4	A-57 and A-68 CO emissions Limit (Basis: BAAQMD 2-2-112)[RACT, Source Test Method 6]	Y	
Part 5	A-57 and A-68 VOC destruction efficiency requirement (Basis: NSPS and NESHAPS)[Cumulative Increase; BACT]	Y	
Part 6	A-57 and A-68 minimum oxidation temperature requirement. (Basis: Regulation 2-1-403)[Cumulative Increase]	Y	
Part 7	A-57 and A-68 continuous temperature monitor (Basis: Temperature Monitoring and Regulation 1-521)[Regulation 2-1-403]	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 emissions limit (WWTP and Diversion Area abatement devices) (Basis: Regulation 8, Rule 2)[Regulation 2-1-403]	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)NMHC determination methods – thermal oxidizers. [Cumulative Increase]	Y	
Part 13	Recordkeeping (Basis: Cumulative Increase)NMHC determination – Recordkeeping [Cumulative Increase]	Y	
<u>Part 14 [A68 ONLY]</u>	<u>A-68 propane firing limit [cumulative increase]</u>	<u>Y</u>	
<u>Part 15</u>	<u>A-57 and A-68 temperature excursion exemption [Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 16</u>	<u>A-57 and A-68 temperature excursion recordkeeping [Regulation 2-1-403]</u>	<u>Y</u>	
<u>Part 17</u>	<u>A-57 and A-68 operation recordkeeping [Recordkeeping]</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV – K2
 Source-specific Applicable Requirements
 A-65, DIVERSION AREA THERMAL OXIDIZER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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)		
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	Organic Compounds, 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	

IV. Source Specific Applicable Requirements

**Table IV – K2
 Source-specific Applicable Requirements
 A-65, DIVERSION AREA THERMAL OXIDIZER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 <u>and exemption for sources vented to fuel gas or with routine source test requirements in permit conditions</u>	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	Organic Compounds, 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 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	NSPS Subpart Kb for Tanks (10/15/2003)		

IV. Source Specific Applicable Requirements

**Table IV – K2
 Source-specific Applicable Requirements
 A-65, DIVERSION AREA THERMAL OXIDIZER**

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

IV. Source Specific Applicable Requirements

**Table IV – K2
 Source-specific Applicable Requirements
 A-65, DIVERSION AREA THERMAL OXIDIZER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	system requirements; Car-sealed valves on bypass lines in closed-vent system		
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	
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	

IV. Source Specific Applicable Requirements

Table IV – K2
Source-specific Applicable Requirements
A-65, DIVERSION AREA THERMAL OXIDIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.354(f)(1)	Monitoring of Operations; Closed vent system with bypass line; Visually inspect carseal/valve positions monthly	Y	
61.355	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	
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 (06/23/2003/06/03/2010)		
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	

IV. Source Specific Applicable Requirements

**Table IV – K2
 Source-specific Applicable Requirements
 A-65, DIVERSION AREA THERMAL OXIDIZER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.655(a) 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	<u>For S-193, S-196, S-205 and S-206:</u>		
Part 1	Abatement requirements [Cumulative Increase]	Y	
Part 2	NMHC mass emissions limit [Regulation 8 , <u>Rule 22-1-403</u>]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer. [Cumulative Increase]	Y	
Part 4	<u>NMHC determination</u> - 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	
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 <u>operation</u> recordkeeping [Recordkeeping]	Y	
<u>Part 17</u>	<u>A-65 destruction efficiency [Cumulative Increase; BACT]</u>	<u>Y</u>	

**Table IV – K3
 Source-specific Applicable Requirements
 A-37, WWTP CARBON CANISTERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
1-107	Combination of Emissions	Y	

IV. Source Specific Applicable Requirements

**Table IV – K3
 Source-specific Applicable Requirements
 A-37, WWTP CARBON CANISTERS**

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

IV. Source Specific Applicable Requirements

**Table IV – K3
 Source-specific Applicable Requirements
 A-37, WWTP CARBON CANISTERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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: Combined collection and destruction efficiency of 70% by weight	Y	
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	

IV. Source Specific Applicable Requirements

**Table IV – K3
 Source-specific Applicable Requirements
 A-37, WWTP CARBON CANISTERS**

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

IV. Source Specific Applicable Requirements

**Table IV – K3
 Source-specific Applicable Requirements
 A-37, WWTP CARBON CANISTERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 (06/23/200306/30/2010)		
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	Y	

IV. Source Specific Applicable Requirements

Table IV – K3
Source-specific Applicable Requirements
A-37, WWTP CARBON CANISTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.		
63.655(a) 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>		
Part 1	Abatement requirements [(Cumulative Increase)]	Y	
Part 8	A-37 <u>continuous</u> flow meter and <u>continuous</u> total hydrocarbon analyzer concentration monitor [(Cumulative Increase)]	Y	
Part 9	<u>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 [Cumulative Increase]</u> Flow indicator or equivalent on vent streams to control devices (Cumulative Increase)	Y	
Part 10	<u>NMHC mass emissions limit [Regulation 2-1-403]</u> Combined NMHC mass emissions limit (Regulation 8, Rule 2)	Y	
Part 11	NMHC limit compliance determination <u>methods</u> – carbon canisters [(Cumulative Increase)]	Y	
Part 13	<u>NMHC determination - Recordkeeping</u> [(Cumulative Increase)]	Y	
Part 18	A-37 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	Y	
<u>BAAQMD Condition 24245</u>			
Part 47	Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)	Y	
Part 48	Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)	Y	
Part 49	Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)	Y	
Part 50	Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)	Y	

IV. Source Specific Applicable Requirements

**Table IV – K4
 Source-specific Applicable Requirements
 A36, DIVERSION AREA CARBON CANISTERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/201107/19/2006)		
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)		
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	

IV. Source Specific Applicable Requirements

**Table IV – K4
 Source-specific Applicable Requirements
 A36, DIVERSION AREA CARBON CANISTERS**

Applicable Requirement	Regulation Title or Description of Requirement	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	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-502	Source Test Requirements <u>and exemption for sources vented to fuel gas or with routine source test requirements in permit conditions</u>	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 07/18/1990; Subpart FF last amended 01/05/1994)	Y	
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	

IV. Source Specific Applicable Requirements

**Table IV – K4
 Source-specific Applicable Requirements
 A36, DIVERSION AREA CARBON CANISTERS**

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

IV. Source Specific Applicable Requirements

**Table IV – K4
 Source-specific Applicable Requirements
 A36, DIVERSION AREA CARBON CANISTERS**

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

IV. Source Specific Applicable Requirements

**Table IV – K4
 Source-specific Applicable Requirements
 A36, DIVERSION AREA CARBON CANISTERS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (06/23/2003/06/30/2010)		
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	
63.655(a) 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	<u>For S-193, S-196, S-205 and S-206:</u>		
Part 1	Abatement requirements [Basis: Cumulative Increase]	Y	
Part 2	NMHC mass emissions limit [Basis: Regulation 8, Rule 2] [Regulation 2-1-403]	Y	
Part 3	NMHC determination methods – carbon canisters and thermal oxidizer. [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – K4
Source-specific Applicable Requirements
A36, DIVERSION AREA CARBON CANISTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	<u>NMHC determination</u> - Recordkeeping [Basis -Cumulative Increase]	Y	
Part 7	A-36 <u>flow and</u> VOC monitoring device requirements [Basis -Cumulative Increase]	Y	
Part 16	A-36 carbon canister replacement requirement. [Consent Decree X.E. Paragraphs 141-145]	Y	
<u>BAAQMD Condition 24245</u>			
<u>Part 47</u>	<u>Carbon canister breakthrough limit (Consent Decree X.E Paragraph 141)</u>	<u>Y</u>	
<u>Part 48</u>	<u>Carbon canister monitoring frequency (Consent Decree X.E Paragraph 142)</u>	<u>Y</u>	
<u>Part 49</u>	<u>Replace secondary carbon canister immediately when breakthrough detected. "Immediately" defined. (Consent Decree X.E Paragraph 143)</u>	<u>Y</u>	
<u>Part 50</u>	<u>Maintain adequate fresh carbon supply (Consent Decree X.E Paragraph 144)</u>	<u>Y</u>	

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 (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-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
11883	S-201 Truck Loading Operation
11884	S-202 Truck Loading Operation
12727	S-232 and S-233, ESP Fines System (To be deleted upon startup of S-1059 and S-1060 PS Furnaces)

IV. Permit Conditions

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 Superseded by 24375
18748	Superseded Superseded by 24310
18794	S-1004 Catalytic Reformer (Superseded by Condition 20820, Parts 55 and 56 upon activation of Condition 20820, Part 21.a triggers)
19177	Cogen Project S-1030 and S-1031
19329	Alternative Compliance Plan S-7, 20 – 26, 30 – 35, 40, 41, 173 and 220. (To be deleted upon expiration of NOx IERCs)
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
<u>20820</u>	<u>VIP, FCCU/CKR Scrubber (A-1047), PS Furnaces (S-1059, S-1060), Crude Oil Storage Tanks (S-1047, S-1048), Hydrogen Reformer Furnace S-1061, Cargo Carrier and Dock (S-1029), and Miscellaneous Units, Vessels, and Reactors</u>
21233	Regulation 9-10 NOx Box
22156	ESP Monitoring (Deleted upon startup of S-1059 and S-1060 PS Furnaces)
22323	S165 Throughput Limit
24375	Emergency Standby Engine ATCM Conditions (S-243)
24309	Emergency Standby Engine ATCM Conditions (S-251)
24310	Firewater Pump ATCM Conditions (S-240 , S-241, S-242, <u>S-252</u>)
22949	Ultra Low Sulfur Diesel Unit (S-247, S-248, S-1036, S-1051, and S-1052)

IV. Permit Conditions

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)
<u>24737</u>	<u>Alkylation Hydrogenerator Guard Beds, S-1063</u>
24754	S-1003 Valero BAP Gasoil Transfer Project, Fugitive Equipment,
<u>25158</u>	<u>S-34, S-35, S-40, S-41 Intermittently Operated Furnace Requirements</u>
<u>25342</u>	<u>Low Pressure Fuel Gas H2S and TRS Requirements</u>
76003	Deleted. Additive no longer available and S108 out of service

IV. Permit Conditions

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

Condition# 125

Valero Refining Company - California

3400 E. Second Street

Benicia, Ca 94510

S-1 Sulfur Recovery Unit A

Previous Applications: 26227 (1977), 26878 (1979), 29808 (1984), 17850 (1997), 8028 (Oct 2003) 8427 (Dec 2003), 14443 (Aug 2006), 14604

(Oct 2006), [24379 \(August 2012\): Consolidated Consent Decree Requirements.](#)

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.]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

IV. Permit Conditions

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. ~~Deleted (Initial H2S source test completed and Consent Decree requirement replaced by Consent Decree Condition 24245 Parts 36, 37, 38, 39, and 41). 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.)~~
10. ~~Deleted (Replaced by Consent Decree Condition 24245 Parts 36, 37, 38, 39, and 41). S-1 shall be an affected facility pursuant to 40 CFR Part 60 Subpart J and shall comply with all applicable requirements in 40 CFR Part 60 Subparts A and J. All emission points (stacks) to the atmosphere for tail gas emissions from S-1 will be monitored and reported upon in accordance with 40 CFR §§ 60.7(c), 60.13, and 60.105. During the life of the Consent Decree and for the purpose of determining compliance with the SRP emission limits, the owner/operator shall apply the "startup" and "shutdown" provisions set forth in NSPS Subpart A to S-1 but not to the independent startup or shutdown of its corresponding control device(s). However, the malfunction exemption set forth in NSPS Subpart A shall apply to both S-1 and its control device(s). (Basis: Consent Decree XII.B Paragraphs 221, 222 & 224, 227)~~

Condition# 126

Valero Refining Company - California
3400 E. Second Street

IV. Permit Conditions

Benicia, Ca 94510

S-2 Sulfur Recovery Unit B

Previous Applications: 26227(1977), 26878(1979), 29808

(1984), 17850 (1997), 8028 (Oct 2003) 8427 (Dec 2003), 14443 (Aug 2006), 14604 (Oct 2006)

[, 24379 \(August 2012\): Consolidated Consent Decree Requirements.](#)

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.][3. Except during upset conditions, the Owner/Operator shall not open the motor operated valve (MOV-003), that allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15) when either of the sour gas feed valves (F052, F054) to source S-2 are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: Regulation 9-1-313.2]
4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-2 Sulfur Recovery Unit to the Beavon and Flexsorb SE Tail Gas Treatment Units (A-24, A-62 and A-56). The Owner/Operator shall return the recovered hydrogen sulfide the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-313.2]
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

IV. Permit Conditions

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. ~~Deleted (Initial H2S source test completed and Consent Decree requirement replaced by Consent Decree Condition 24245 Parts 36, 37, 38, 39, and 41). 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.)~~

10. ~~Deleted (Replaced by Consent Decree Condition 24245 Parts 36, 37, 38, 39, and 41). S-2 shall be an affected facility pursuant to 40 CFR Part 60 Subpart J and shall comply with all applicable requirements in 40 CFR Part 60 Subparts A and J. All emission points (stacks) to the atmosphere for tail gas emissions from S-2 will be monitored and reported upon in accordance with 40 CFR §§ 60.7(c), 60.13, and 60.105. During the life of the Consent Decree and for the purpose of determining compliance with the SRP emission limits, the owner/operator shall apply the "startup" and "shutdown" provisions set forth in NSPS Subpart A to S-2 but not to the independent startup or shutdown of its corresponding control device(s). However, the malfunction exemption set forth in NSPS Subpart A shall apply to both S-2 and its control device(s). (Basis: Consent Decree XII.B Paragraphs 221, 222 & 224, 227)~~

IV. 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 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]~~

IV. Permit Conditions

Condition# 1709

For Source S-129 Marine Bulk Plant (LD-129)

- 1a. 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. This limit is based on a throughput of 9.39 million barrels of gasoline loaded per year and the controlled ship loading emission factor in Part 2 (0.22 lbs/1000 gals). [Basis: Cumulative Increase]
- 1b. The Owner/Operator shall not exceed 9.39 million barrels of gasoline loaded during any consecutive 12-month period. [Basis: Remain exempt from 40 CFR Part 63, Subpart Y standard of NESHAP for Marine Tank Vessel Loading Operations, 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. These emission factors are not enforceable. The uncontrolled and controlled emission factors are retained to document the basis used for 43.4 tons/yr POC in Part 1a. [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 abate emissions from Source S-129 with Abatement Device A-29 during all periods of operation. The owner/operator of S-219 and A-29 shall ensure the control efficiency of A-29 is at least 95%, by weight, 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, Regulation 8-44-304]
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] Deleted. [Redundant with Regulation 8-44-501]
5. The Owner/Operator shall install a continuous emission monitor and recorder for NMHC concentrations, mass VOC emissions at the A-29 discharge emission point. The owner/operator shall maintain and operate the NMHC analyzer as set forth in the manufacturer's operating manual. The owner/operator shall install an audio alarm set to activate when the A-29 carbon bed exhaust NMHC concentration exceeds 6,000 ppm as butane (C4). The alarm is used to provide an early indication that the carbon adsorption system may not be performing adequately. The owner/operator shall shutdown the S-129 loading operation if the NMHC concentration exceeds 9,000 ppm as butane (C4), 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, Regulation 8-44-304, SIP Regulation 8-44-301; CAM 40 CFR 64.2(b)(1)(vi)]
6. The Owner/Operator shall record the relief valve set pressures for each marine vessel loaded and maintain a continuous pressure recording of all controlled gasoline (mogas)

IV. Permit Conditions

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. ~~Deleted. [Basis: Superseded by Regulation 8, Rule 44, which prohibits uncontrolled loading of regulated materials. Replaced with Part 6 loading pressure limitation.] 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. ~~Deleted. [Basis: Superseded by more stringent marine vessel leak repair requirements in Regulation 8-44-305.2, 305.3, and 305.4 (RACT) and U.S. Coast Guard requirements for vapor-tight marine vessels ([http://www.uscg.mil/hq/cg5/cg522/cg5223/docs/Marine Vapor Control Requirements.doc](http://www.uscg.mil/hq/cg5/cg522/cg5223/docs/Marine_Vapor_Control_Requirements.doc))] 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. ~~Deleted. [See Part 9] If the testing in part 9 demonstrates a leakage rate greater than 5% of the total volume, the Owner/Operator shall calculate the emissions for any leak exceeding 5% of the total volume using worst case assumptions, highest vapor pressure and saturated vapor space. The Owner/Operator shall then add the calculated emissions to the total used to determine compliance with part 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]~~

11. ~~Deleted. [See Part 9] 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. ~~Deleted. [Superseded by more stringent marine vessel leak testing and repair requirements in Regulation 8-44-305.2, 305.3, and 305.4 (RACT)] 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~~

IV. Permit Conditions

~~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.]

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 flare gas recovery header (S-9) 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]

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 Alkylolation 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.)

IV. Permit Conditions

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]

Condition# 9296

For Sources S-40 Steam Boiler, S-158 Fixed Roof Tank, S-209 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:

S-209	Ethanol Truck Unloading Rack
S-210	Ethanol Storage Tank, TK-1820
S-1003	Hydrocracker Unit
S-1011	Heavy Cat Naphtha Hydrofiner
S-1014	Cat Light Ends Unit
S-1024	Light Cat Naphtha Hydrotreater

[Amended by Application # 24386, Delete completed fugitive requirements. Update final fugitive count and emissions \(June 2012\)](#)

[Application 24656 Consolidation of all fuel gas system requirements \(September 2012\)](#)

- A1. Deleted. [Basis: ~~Superceeded~~Superseded by BAAQMD Condition 18043]
- A2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]

IV. Permit Conditions

- 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] [\[Basis: Banking Credits\]](#)

S-209 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 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 ethanol at the facility to no more than 6,620 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
- B5. The Owner/Operator shall deliver the dispensed ethanol from the transport trucks to the S-210 ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]
- B6. The Owner/Operator shall limit the total fugitive POC emissions from S-209 to no more than 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
- B7. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- B8. Deleted. [Basis: Maximum leak concentrations are covered by Regulation 8, Rule 18.]
- B9. The Owner/Operator shall record the total number of truck deliveries of ethanol 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 Ethanol Tank

- C1. The Owner/Operator limit the total throughput of product from S-210 to no more than 1,303,000 barrels of 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.]

IV. Permit Conditions

- d5. The Owner/Operator shall only store 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]
- d6. The Owner/Operator shall record the total monthly throughput of 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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 2c). The Owner/Operator shall operate the scrubber system upstream of S-40 Boiler at an annualized daily averaged (calendar year) total reduced sulfur concentration at or below 51 ppm, by volume. [Basis: Offsets]~~
- d5. Completed
- d6. ~~Deleted. (Replaced by LPFG Condition 25342, Part 4a). 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 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

IV. Permit Conditions

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. ~~Deleted. (Completed. All new light hydrocarbon control valves installed as part of the CARB Phase III project were equipped with live-loaded packing systems and polished stems, or equivalent).~~ 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]

b. ~~Deleted. (Completed. All new flanges/connectors installed in light hydrocarbon piping systems as part of the CARB Phase III project were equipped with graphitic gaskets unless prevented by service requirements.)~~ 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]

c. ~~Deleted. (Completed. All new light hydrocarbon centrifugal pumps installed as part of the CARB Phase III project are of seal-less design or are equipped with dual mechanical seals, or equivalent.)~~ 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]

d. ~~Deleted. (Completed. All fugitive equipment installed as part of the CARB Phase III project has been incorporated into the facility LDAR program).~~ 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 has been permitted to install fugitive components with a total POC emission rate of 0.22 TPY for the entire CARB Phase III Project. The final CARB Phase III Project (AN 18582) fugitive count was submitted on 7/2/2010. ~~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 (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~~

IV. Permit Conditions

~~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]

IV. Permit Conditions

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

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

[Application 24386 \(May 2012\), Delete completed fugitive requirements. Update final fugitive count and emissions.](#)

[APPLICATION 24656 Consolidation of all fuel gas system requirements \(September 2012\)](#)

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]

IV. Permit Conditions

Recordkeeping and Monthly Reporting

- G. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. The Owner/Operator shall retain all records for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: [Basis: BACT]

Fuel usage type and amount for:
S-220 Hot Oil System
S-21 Hydrogen Reformer Furnace
S-22 Hydrogen Reformer Furnace

CEM data and CEM indicated excesses;
[Partially Deleted. \(H2S/TRS recordkeeping replaced by LPFG Condition 25342, Part 4a\)](#)
[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

IV. Permit Conditions

S-1058 Virgin Light Ends Unit
S-151 Waste Water Treatment Unit
S-1003 Hydrocracking Unit

1. ~~Deleted. (Completed. All new pumps installed light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) were equipped with an approved seal-less pump technology.)~~The Owner/Operator shall equip any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics]
 - a) ~~equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure.~~
 - b) ~~equipped with a "canned" pump~~
 - c) ~~equipped with a magnetically driven pump~~
2. Deleted.
3. Deleted.
4. ~~Deleted. (Completed. All new light hydrocarbon flow control valves installed as part of the CFP were equipped with live-loaded packing systems and polished stems, or equivalent.)~~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. ~~Deleted. (Completed. All other hydrocarbon valves greater than 2 inches installed as part of the CFP were (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent.)~~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. ~~Deleted. (Completed. All new flanges/connectors installed in light hydrocarbon piping systems as part of the CFP were equipped with graphitic gaskets unless where service requirements dictate use of asbestos-type gaskets.)~~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. ~~Deleted. (Completed. No reciprocating compressors in HC service added for Clean Fuels Project)~~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

IV. Permit Conditions

- ~~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. ~~Deleted. (Completed. All process drains installed as part of the CFP were fitted with a "P" trap sealing system).~~ 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. The final CFP fugitive count was submitted prior to issuance of the Permit to Operate. This total may be adjusted by the District in accordance with the provisions of Part #9. [Basis: Cumulative Increase]

FUEL GAS SYSTEM

13. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 1b and 1d).~~ 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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 2d).~~ 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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 3a).~~ 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. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 4a and 5a).~~ 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~~

IV. Permit Conditions

~~(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. ~~Partially Deleted. (Replaced by LPFG Condition 25342, Part 2d). In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day).~~ [Basis: BACT, Cumulative Increase]
18. The Owner/Operator shall limit the total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP to no more than the following annual limits: [Basis: BACT, Cumulative Increase, Offsets] [Basis: SO2 Contemporaneous offset credits for SO2 and PM10 in Application #18888]

S-21, S-22 and S-220

Pollutant	Annual (tons)
NOx(1)	17.11 (S-220 only)
CO	134.904
SO2	59.358
PM10	26.981
POC	15.514

Note 1. Deleted. [Basis: There is no NOx increase in emissions from the S-21 and S-22 Hydrogen Heaters.]

19. The Owner/Operator shall equip the three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Regulation 9-10-502.2]

IV. Permit Conditions

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]
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. [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,

IV. Permit Conditions

27. Offsets, Cumulative Increase]
.For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]
28. Completed
29. The Owner/Operator shall limit the total combined heat input for S-220 to no more than 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]
30. The Owner/Operator shall limit the firing rate of the S-220 MRU Hot Oil Furnace to no more than 351 million Btu per hour (Maximum firing rate). (Basis: Cumulative Increase, Toxics)
S-21 Hydrogen Reformer Furnace, F-301
S-22 Hydrogen Reformer Furnace, F-351
31. For the S-21 and S-22 furnaces, the Owner/Operator shall limit the emissions of nitrogen oxides based on CEM data to no more than 60 ppmv, dry, corrected to 3% oxygen, (0.0708 lb/MMBtu) averaged over any consecutive 24 hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the Owner/Operator shall limit the emissions of nitrogen oxides to no more than 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]
32. For the S-21 and S-22 furnaces, the Owner/Operator shall limit emissions of CO to no more than 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]
33. The Owner/Operator shall equip Sources S-21 and S-22 with low NOx burners. The Owner/Operator shall operate the low NOx burners systems in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]
34. Not Implemented
35. Not Implemented
36. Completed
37. The Owner/Operator shall limit the total combined heat input for S-21 and S-22 to no 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-

IV. Permit Conditions

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 shall be connected to the A-46/A-47 vapor recovery system. . [Basis: Cumulative Increase, Offsets, Toxics]
43. The Owner/Operator shall operate Tank S-227 with a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]
44. The Owner/Operator shall not store any material in S-227 storage tank, other than the materials specified in this application for the tank, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Owner/Operator shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]
45. The Owner/Operator shall vent all POC emissions from tank cleaning, degassing, or product changeout to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]

TOXICS

46. Completed. [Basis: The Owner/Operator has performed the necessary source tests for toxics.]

OFFSETS (DISTRICT EMISSIONS BANK)

47. Completed. [Basis: The Owner/Operator has met their offset obligation for NOx, POC, SO2 and PM10.]
48. Completed. [Basis: The Owner/Operator has paved two heavily traveled roads in the Refinery to provide contemporaneous emissions reduction for PM10.]
49. Completed. . [Basis: The Owner/Operator has made the paved road wide enough to for vehicles to pass without excursion onto the unpaved shoulders.]
50. Deleted. [Basis: No longer required to monitor mass emissions from the S-21 and S-22 Hydrogen Furnaces through a condition due to required monitoring of furnaces under Regulation 9, Rule 10.]

IV. Permit Conditions

ALKYLATE PRODUCTION PROJECT (AN 3782)

51. The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels. (Basis: BACT, Cumulative Increase)
52. ~~Owner/Operator has been permitted to install fugitive components for the Alkylation Production Project (AN 3782). The Alkylate Production Project in Application 3782, when installed, shall consist of no more than 126 valves, 141 connectors/flanges, 5 pressure relief valves and 2 pumps.~~ The POC emission from the entire project shall not exceed 0.174 ton/year. ~~The final project fugitive count was submitted on July 18, 2005. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance.~~ (Basis: Cumulative Increase, Offsets)

Condition# 10633

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

1. The Owner/Operator shall record the total daily throughput of product from S-97 in a 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

IV. Permit Conditions

and made available to the District staff upon request. [Basis: Cumulative Increase]

8. Deleted. [Basis: MTBE Phaseout Application 2035]
9. Deleted. [Basis: MTBE Phaseout Application 2035]

~~Condition# 11030~~

~~For Sources S-3 and S-4 Furnaces~~

~~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)~~

IV. Permit Conditions

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/or A-57 and/or A-68 Thermal Oxidizers Application 16938/16939 (Title V) Consolidated WWTP Conditions; Application 15934/19793 (Title V) Diversion Area Thermal Oxidizer A-65 Application 20690/22052 (Title V) Added A-68 Thermal Oxidizer WWTP Application 24379 (August 2012): Consolidated Consent Decree Requirements

1. The Owner/Operator shall abate sources S-131, S-150, S-194, S-195, S-197, S-198, S-199 and S-200 by ~~the~~ A-37 Carbon Canisters (two 700 lb (minimum) canisters in series) and/or ~~the~~ A-57 and/or A-68 Thermal oxidizers 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 total combined ~~influent of wastewater to be treated at anytime by effluent from~~ S-194, S-195, S-197 and S-198 to not exceed 3000 gallons per minute. The owner/operator shall maintain records for each day of total combined flow rate of influent wastewater and made available for inspection by the District for at least five years following the date the data is recorded. [Basis: Cumulative Increase, recordkeeping]
3. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) from the A-57 and A-68 Thermal Oxidizers to no more than ~~25-50~~ ppm each, by volume, dry, corrected to ~~315~~% oxygen, as determined by the applicable BAAQMD Source Test Method. [Basis: BAAQMD 2-2-112 RACT, Source Test Method 13A]
4. The Owner/Operator shall limit the emissions of carbon monoxide (CO) from the A-57 and A-68 Thermal Oxidizers to no more than ~~350~~ ppm each, by volume, dry, corrected to ~~315~~% oxygen, as determined by the applicable BAAQMD Source Test Method. [Basis: BAAQMD 2-2-112 RACT, Source Test Method 6]
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]~~ The owner/operator shall operate A-57 and A-68 to meet the following VOC destruction efficiency requirements, depending on the applicable inlet VOC concentration:
 - a) VOC destruction efficiency >98.5% if A-57 or A-68 inlet VOC concentration >2,000 ppmv;
 - b) VOC destruction efficiency >97% if A-57 or A-68 inlet VOC concentration >200 to <2,000 ppmv;
 - c) VOC destruction efficiency >90% if A-57 or A-68 inlet VOC concentration <200 ppmv.[Basis: Cumulative Increase; BACT]
6. The Owner/Operator shall ~~maintain the oxidation temperature of operate~~ A-57 and A-68 Thermal Oxidizers at ~~or above~~ a minimum temperature of 1400 degrees Fahrenheit

IV. Permit Conditions

~~(minimum temperature) as averaged over any consecutive 3-hour period. The District may adjust this minimum temperature~~ ~~if~~ ~~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~~Cumulative Increase]

7. ~~To determine compliance with the temperature requirement in Part 6, t~~The Owner/Operator shall equip the A-57 ~~and A-68~~ Thermal Oxidizers ~~s~~ with ~~a~~ temperature measuring devices ~~s~~ capable of continuously measuring and recording the oxidation temperatures ~~s~~ in A-57 ~~and A-68~~. ~~The Owner/Operator shall install and maintain the temperature measuring devices in accordance with manufacturer's recommendations. 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 46.~~ [Basis: ~~Temperature Monitoring and Regulation 1-524~~Regulation 2-1-403]

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 ~~and/or A-68~~ Thermal Oxidizers ~~s~~ 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 hydrocarbon (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, and A-68~~ to no more than 15 pounds per day, as averaged over one month. [Basis: ~~Regulation 8, Rule 2~~Regulation 2-1-403]

11. To demonstrate compliance with Part 10 ~~for A-37~~, the Owner/Operator shall determine the NMHC from the carbon canisters using the flow rates and total hydrocarbon analyzer readings at the outlets ~~s~~ of the second carbon canisters ~~s~~ 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 ~~s~~ of the second carbon canisters ~~s~~ of ~~A-36 and~~ A-37. Alternatively, the methane contents concentration can also be obtained by actual gas samples. [Basis: Cumulative Increase]

IV. Permit Conditions

12. To demonstrate compliance with Part 10 for A-57 and A-68, the Owner/Operator shall determine the NMHC emissions from A-57 and A-65 the Thermal Oxidizers based upon the results of the District approved initial source test(s). [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 daily flow rate and outlet NMHC concentrations.
 - d. Carbon canister changeout dates.
 - e. Total volume of gas recorded between carbon canister changeouts.
14. The Owner/Operator shall not fire more than 95,738 gallons of propane at the Thermal Oxidizer A-68 during any consecutive 12 month periods. [Basis: cumulative increase]
15. The temperature limit in Part 6 shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller set point complies with the temperature limit. An Allowable Temperature Excursion is one of the following:
 - a. A temperature excursion not exceeding 20 degrees F (below the setpoint); 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
 - 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 (below the setpoint);
 - 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)
16. For each Allowable Temperature Excursion that exceeds 20 degrees F (below the setpoint) 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 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)

IV. Permit Conditions

17. The owner/operator shall maintain the following records for each month of operation of the Thermal Oxidizers A-57 and A-68: [Basis: Recordkeeping]
- a. The hours and times of operation and which sources A-68 is controlling
 - b. Temperature of A-57 and A-68
 - c. The fuel usage of A-68
- 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.
18. Deleted. (Replaced by Consent Decree Condition 24245 Parts 47, 48, 49, and 50). The owner/operator of A-37 Carbon Canisters shall replace the primary carbon canister within 24 hours when the breakthrough reading between the primary and secondary canister is equal to or greater than 100 ppm VOC or 5 ppm benzene. The owner/operator shall maintain records for breakthrough reading between the primary and secondary canister in ppm of VOC or ppm of benzene concentration and made available for inspection by the District for at least five years following the date the data is recorded. (Basis: Consent Decree X Paragraphs 141-145)

Condition# 11880

For Sources S-193, S-196, S-205, and S-206 Wastewater Diversion and Surge Tanks Abated by A-36 Carbon Canisters and /or A-65 and/or A-68 Thermal Oxidizers
Updated by Application 15934; ~~Modified by Application~~ 19793 (Title V) Diversion Area Thermal Oxidizer A-65
Updated by Application 20690/22052 (Title V) Added A-68 Thermal Oxidizer WWTP Application 24379 (August 2012): Consolidated Consent Decree Requirements

1. The Owner/Operator shall abate S-193, S-196, S-205 and S-206 using two 1200 lb (minimum) carbon canisters in series (A-36) 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 hydrocarbon (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, and A-68 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation ~~8, Rule 22-1-403~~]
3. To demonstrate compliance with Part 2 for A-36, the Owner/Operator shall determine the NMHC ~~emissions flow rates and NMHC concentrations at the outlet of the second carbon canister of~~ from the carbon canisters using the flow rates and 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

IV. Permit Conditions

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 for A-65, the Owner/Operator shall determine the NMHC emissions from ~~A-57 and A-65~~ the Thermal Oxidizers based upon the results of the District-approved initial source test(s). [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]
- Daily NMHC emission rate in pounds per day.
 - Daily NMHC emission rate, as averaged over one month, in pounds per day.
 - Carbon canister daily flow rates and outlet NMHC concentrations.
 - Carbon canister changeout dates.
 - 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.]

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~~ equip the A-36 Carbon Canisters with District-approved analyzers 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~~ flow rate and total hydrocarbon VOC concentration in the outlet gas stream of the second canister. [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

IV. Permit Conditions

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 (below the setpoint); 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
- 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 (below the setpoint);
 - 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 (below the setpoint) 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
- ~~b-c.~~ The fuel usage of A-65

All measurements, records and data required to be maintained by the operator shall be

IV. Permit Conditions

retained and made available for inspection by the District for at least five years following the date the data is recorded.

16. Deleted. (Replaced by Consent Decree Condition 24245 Parts 47, 48, 49, and 50). The owner/operator of A-36 Carbon Canisters shall replace the primary carbon canister within 24 hours when the breakthrough reading between the primary and secondary canister is equal to or greater than 100 ppm VOC or 5 ppm benzene. The owner/operator shall maintain records for breakthrough reading between the primary and secondary canister in ppm of VOC or ppm of benzene concentration and made available for inspection by the District for at least five years following the date the data is recorded. (Basis: Consent Decree X Paragraphs 141-145)
17. The owner/operator shall operate A-65 to meet the following VOC destruction efficiency requirements, depending on the applicable inlet VOC concentration:
 - a. VOC destruction efficiency > 98.5% if A-65 inlet VOC concentration > 2,000 ppmv;
 - b. VOC destruction efficiency > 97% if A-65 inlet VOC concentration > 200 to < 2,000 ppmv;
 - c. VOC destruction efficiency > 90% if A-65 inlet VOC concentration < 200 ppmv.(basis: Cumulative Increase; BACT)

Condition# 11882

Consolidated with 11879 per A/N #16938 (February 2008)

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)

IV. Permit Conditions

~~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

Condition# 13319

Consolidated with 11879 per A/N #16938 (February 2008)

Condition# 14318

For Source S-23 Process Oil Furnace

A/N 13201, Correct NSPS J H2S Concentration, (Oct 2005)

A/N 20558, Add Start-up, Shutdown, and Curtailed Operation Allowances (June 2009)

Application 24656 Consolidation of all fuel gas system requirements (September 2012)

1. The Owner/Operator shall limit the emissions of NMHC from S-23 (Furnace F-401) to no more than 10 lb/day. [Basis: BACT]
2. The Owner/Operator shall limit the emission of NOx to no more than 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]
- 2A. Part 2 does not apply to low firing rate conditions (i.e., firing rates less than or equal to

IV. Permit Conditions

- 20% of the unit's permitted capacity (185 MMBTU/hr)), during startup periods not to exceed twelve (12) hours, during shutdown periods not to exceed nine (9) hours, or during periods of curtailed operation (i.e., heater idling, refractory dry out, etc.) not to exceed 5 days. [Basis: Cumulative Increase, Offsets, Regulation 9-10-218];
- ~~2B~~ During periods of startup or shutdown or curtailed operations of Part 2A, the Owner/Operator shall maintain the emissions of nitrogen oxides from S-23 Furnaces at or below 68 ppmv, dry, corrected to 3% oxygen, averaged over any 8 consecutive hours, or 8.6 lbs/hr, averaged over any 8 consecutive hours. The Owner/Operator shall record the NOx concentrations from the CEM and the refinery fuel gas throughput at S-23 to demonstration compliance with the limits above during periods of startup or shutdown or curtailed operations [Basis: Cumulative Increase, Offsets, Regulation 9-10-218, Regulation 9-10-502]
3. The Owner/Operator shall continuously monitor the NOx and oxygen in accordance with the Manual of Procedures. [Basis: Cumulative Increase]
4. Owner/Operator shall limit the firing of S-23 furnace to at or below 200 x million BTU/Hr (maximum firing rate) heat input for any one hour period and 185 x- million BTU/Hr average for a 24 hour period based on the gross heating value of the fuel gas. This 24 hour period shall be midnight to midnight. [Basis: Cumulative Increase]
- ~~5. Deleted. (Replaced by LPPG Condition 25342, Parts 1b and 3a). 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]

Condition# 15512

For Source S-1010 Hydrogen Plant

A/N 17877, Source Test Requirements for Atmospheric Venting (August 2008)

[A/N 21490, Reduction in Source Test Frequency and RACT Limits \(June 2010\)](#)

- ~~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. Whenever the deaerator vents are routed to atmosphere with S-1010 in operation, the Owner/Operator shall conduct an annual source test on the vents (North and South) 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:

IV. Permit Conditions

Regulation 8-2-301]

2. The Owner/Operator shall limit emissions of precursor organic compounds from the North and South vents combined to no more than 15 pounds per day and containing a concentration of less than or equal to 300 ppmv of total carbon on a dry basis. [Basis: Regulation 8-2-301, RACT]

Condition # 16027

For Source S-237 (SG-1032), Boiler

A/N 13201, Correct NSPS J H2S Concentration (Oct 2005)

A/N 16658 (Sept 2007)

Application 24386 (May 2012), Delete completed fugitive requirements. Update final fugitive count and emissions.

Application 24656 Consolidation of all fuel gas system requirements (September 2012)

1. Deleted. (Completed. All hydrocarbon valves greater than 2 inches installed with S-237 were one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. All new installed with S-237 were equipped with graphitic gaskets unless where service requirements dictate use of asbestos-type gaskets.) 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. Deleted. (Replaced by LPFG Condition 25342, Parts 1b and 1d). 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. Deleted. (Replaced by LPFG Condition 25342, Part 2d). 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 SO2 and PM10 emissions]
5. Deleted. (Replaced by LPFG Condition 25342, Part 3a). 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. Deleted. (Replaced by LPFG Condition 25342, Parts 4a and 5a). Fuel Gas System: The

IV. Permit Conditions

~~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. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 1d and 2d) The Owner/Operator shall only fire S-237 Boiler natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H₂S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. [Basis: Cumulative Increase, Toxics, offsets]~~

8. The Owner/Operator shall limit total emissions from this combustion source (S-237) including startups and shutdowns, to no more than the following annual limits: [Basis: Cumulative Increase, Offsets>

Pollutant	Annual (tons)
NOx	13.278
CO	44.721
SO ₂	8.644
PM ₁₀	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
SO ₂	0.0069 lb/MMBtu
PM ₁₀	0.0025 lb/MMBtu
POC	0.0023 lb/MMBtu.

9. The Owner/Operator shall equip the S-237 Boiler with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. (This is a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring and Records>
10. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. [BAAQMD 6-1-301/SIP 6-301]
11. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours.

IV. Permit Conditions

The 24-consecutive-hour startup period is in addition to boiler dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units.S-237 Boiler. [Basis: Cumulative Increase, offsets, operational allowances>

12. Except during startup and shutdown, the Owner/Operator shall limit the emissions of nitrogen oxides from the S-237 to no more than 9 ppmv, dry, corrected to 3% oxygen, (0.0106 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, offsets>
13. For the S-237 Boiler, the Owner/Operator shall limit the CO emissions to no more than 50 ppmv, dry, corrected to 3% oxygen, (0.0357 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. Demonstration of compliance will be based on source test data [Basis: BACT]
14. The Owner/Operator shall abate S-237 at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT]
15. Except during periods of startup and shutdown, Owner/Operator shall limit the ammonia emissions (ammonia slip) from the SCR unit (A-58) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. Demonstration of compliance shall be based on 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

IV. Permit Conditions

test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no later than 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, 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

IV. Permit Conditions

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 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

[Application 24386 \(May 2012\), Delete completed fugitive requirements. Update final fugitive](#)

IV. Permit Conditions

count and emissions.

For S-1007 Alkylation Unit, S-1014 Cat Light Ends Splitter, S-1012 Dimersol Unit

1. The Owner/Operator has been permitted to install fugitive components for the MTBE Phaseout project. 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 final project fugitive count was submitted on June 24, 2004. The owner/operator shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from this source exceed 0.571 ton/year, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate.
<Basis: Cumulative Increase, Toxics>
2. Deleted. <Basis: Covered in BAAQMD Regulation 8, Rule 18.>
3. Deleted. <Basis: Covered in BAAQMD Regulation 8, Rule 18.>

~~Condition # 18344~~

~~For Source S-1 and S-2~~

- ~~1. Deleted. (Application #3902, 1/02)~~
- ~~2. Deleted. (Application #3902, 1/02)~~

Condition # 18422

For Source S-239 (TK-1918)

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)

IV. Permit Conditions

Condition # 18744

~~Superseded Superseded by Condition 24375~~

Condition # 18748

~~Superseded Superseded by Condition 24310~~

~~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

Conditions for the Operation of the Gas Turbine (S-1030) and the Heat Recovery Steam Generator (S-1031)

Applications 2488 and 2965 Cogeneration (2001)

Application 12865 Condition changed (2005)

A/N 13201, Correct NSPS J H2S Concentration (Oct 2005)

Application 24656 Consolidation of all fuel gas system requirements (September 2012)

IV. Permit Conditions

Application 24450 Reduction of source test frequency for S-1030 and S-1031 (October 2012)

Definitions:

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.

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 GasTurbine and S-1031 HRSG duct burners) the standard stack gas oxygen concentration is 15% O₂ by volume on a dry basis.

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: NO_x and POC)
Phase I (S-1030 and S-1031)
NO_x: 13.162TPY from Certificate # 703
2. For SO₂ emissions offsets, a curtailment group is established as follows: (Basis: SO₂ offsets)
Curtailment Group:

IV. Permit Conditions

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 NO_x and CO 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)

IV. Permit Conditions

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)
- 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

IV. Permit Conditions

- 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 or 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) Partially Deleted. (Replaced by LPFG Condition 25342, Parts 1c, 2a and 2f).
- ~~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 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 (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)

IV. Permit Conditions

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)

- 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 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

IV. Permit Conditions

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 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)
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. Deleted. (Phase I Cogen is not required to meet Part 75 Acid Rain CEM requirements). The Owner/Operator of the Cogeneration project shall comply with the continuous emission

IV. Permit Conditions

- ~~monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)~~
35. ~~Deleted. (Replaced by LPFG Condition 25342, Part 3b). 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. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 4b and 5b). 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 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 ~~annual a quarterly~~ source tests 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. The District may revert the source test from annually to quarterly if the subsequent result is more than 50% of the limit. 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 the test results are less than 50% of the limit~~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.]

IV. Permit Conditions

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.)
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

IV. Permit Conditions

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)
- β. The applicant shall submit all necessary documents to the District to review and approve (or deny) the Alternative Compliance Plan. These documents in support of continuing the ACP shall be submitted no later than 30 days after the close of the calendar year. (Basis: Regulation 2-9-303.3)
4. The applicant shall maintain all records required in 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~~

~~APPLICATION 21573 (Mar 2010) P-69 Dump Stack condition is added to the FCCU S-5 and Coker Unit S-6~~

~~1. Deleted. (Basis: Sampling is a safety problem and there is reasonable assurance that~~

IV. Permit Conditions

~~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 to demonstrate compliance with Regulation 6-1-301 (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 6-1-301 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~~

IV. Permit Conditions

~~to meet BAAQMD regulations with three of five ESPs resulting in rescission of this condition).~~

~~5c. Deleted (Basis: Source test requirement related to Part 5b).~~

~~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 more than 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 more than 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 6-1-310 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 more than 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 more than 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 6-1-311 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~~

IV. Permit Conditions

~~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 more than 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.~~

~~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 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 more than 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~~

IV. Permit Conditions

~~equipment have been completed.~~

~~The Owner/Operator shall install continuous level monitors on two water seal compartments of the FCCU/CKR Dump Stack P-69, including continuous data historization for the parametric level monitors, and maintain the instrument in good operating condition at all times. The District may assume the opacity has exceeded a Ringelmann 1-1/2 when a breakthrough is recorded by the continuous level monitor, except where it can be confirmed that the dump stack was not used or an opacity excess did not occur. The Owner/Operator shall document the circumstances of such exceptions in a letter to the District within 30 days following such an indicated breakthrough. [Basis: Regulation 6-1-302, Regulation 1-441]~~

Condition 20666

Application 22998, July 2011

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 overflow prevention devices ("flapper valves"), a Drop Tube Overflow 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.

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 within fifteen (15) days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco, CA 94109. 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:

IV. Permit Conditions

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. (Basis: 8-5-117)

Condition # 20806

For S-16, S-18, S-19 Flares (ST-2101AG, ST-2101, ST-2103)

3. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the Owner/Operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 4 of this condition. (basis: Regulation 2-6-409.2)
4. The Owner/Operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.
 - a. If the Owner/Operator can determine that there are no visible emissions using video

IV. Permit Conditions

- 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)

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. Deleted – Monitoring plans, training, and installation of necessary equipment completed.

IV. Permit Conditions

Condition # 20820, VIP Application No. 5864,

Amended by VIP Amendments, Application No. 16937,

Amended by Application No. 15606 to revise the NMOC baseline.

Amended by Application No. 22710 to add Consent Decree RATA allowance for S-1059 and S-1060, Feb 2011

Application 24379 (August 2012): Consolidated Consent Decree Requirements

Application 24656 (September 2012): Consolidated LPFG H2S and TRS Requirements

Application 24450 (October 2012): Reduction of source test frequency for S-1059 and S-1060

Application 24329 (October 2012): VIP/VIP Amendments Condition Cleanup. Fugitive Equipment update after completion of VIP PROJECTS: FCCU/CKR SCRUBBER, PS FURNACES (S-1059 AND S-1060), CARB Phase III (S-209, S-210, S-1003, S-1011, S-1014, and S-1024), BUTAMER (S-1034, S-1035, S-1049, and S-1050), ULSD UNIT (S-1036, S-1051, and S-1052), and ALKY GUARD BED (S-1063)

FUGITIVE EQUIPMENT

1. a. Deleted (Completed. All new light hydrocarbon control valves installed as part of these VIP were equipped with live-loaded packing system and polished stems, or equivalent. ~~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. Deleted (Completed. All new flanges/connectors installed as part of these VIP projects were equipped with graphitic gaskets unless prevented by service requirements.) ~~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. Deleted (Completed. All new light hydrocarbon centrifugal compressors installed as part of these VIP projects will be installed with "wet" dual mechanical seals with a heavy liquid barrier-fluid, or dual dry gas mechanical seals buffered with inert gas). ~~are of seal less design or are equipped with dual mechanical seals, or equivalent). 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]~~
- d. Deleted (Completed. All new light hydrocarbon centrifugal pumps installed as part of these VIP projects are of seal-less design or are equipped with dual mechanical seals, or equivalent). ~~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]~~
- e. Deleted (Completed. All fugitive equipment installed as part of these VIP projects has

IV. Permit Conditions

~~been incorporated into the facility LDAR Program). 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. ~~a. The Owner/Operator has been permitted to install fugitive components for these VIP projects with a total NMOC emission rate of 4.12 TPY. 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]~~

b. FUGITIVE EQUIPMENT - VIP PROJECTS NOT YET CONSTRUCTED

- i. The Owner/Operator shall equip all light hydrocarbon control valves to be installed as part of the VIP with live loaded packing systems and polished stems, or equivalent. [Basis: BACT, Cumulative Increase, offsets]
- ii. The Owner/Operator shall equip all flanges/connectors to be installed as part of the VIP light hydrocarbon piping systems with graphitic-based gaskets unless the service requirements prevent this material. [Basis: BACT, Offsets, Cumulative Increase]
- iii. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors to be 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]
- iv. The Owner/Operator shall equip all new light hydrocarbon centrifugal pumps to be 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]
- v. The Owner/Operator shall integrate all new fugitive equipment to be installed as

IV. Permit Conditions

part of the VIP, in organic service, into the owner's fugitive equipment monitoring and repair program. [Basis: Compliance monitoring]

c. The Owner/Operator shall submit a count of installed pumps, compressors, valves, and flanges/connectors every 180 days until completion of the project. The Owner/Operator has been permitted to install fugitive components with a total NMOC emission rate of 1.88 TPY. If there is an increase in the total fugitive component emissions, the plant's cumulative emissions for the project shall be adjusted to reflect the difference between emissions based on predicted versus actual emissions. 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. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 1a, 1c and 2e). 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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 2b). 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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 3a). 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. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 4c and 5c). 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~~

IV. Permit Conditions

~~60 days after the end of the quarter. [Basis: BACT, Offsets, Cumulative Increase,]~~

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]

Pollutant	Annual (tons)
NOx	25.3
CO	30.8
SO2	28.0
PM10	10.7
NMOC	9.9

- 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, corrected to 3%

IV. Permit Conditions

- 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, [and O2. Partially Deleted \(-](#) [Fuel gas TRS and H2S CEMS replaced by Condition 25342, Part 3a.\)](#). [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]

IV. Permit Conditions

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. Deleted. [Basis: FCCU/CKR Scrubber and Main Stack triggers removed because they have been activated and no longer apply. The interim FCCU/CKR Scrubber and Main Stack emission limits have been superseded by the FCCU/CKR Scrubber emission limits of Part 63, 66, 67, and 68 based upon activation of the triggers.]~~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. ~~Deleted. [Basis: FCCU/CKR Scrubber and Main Stack triggers removed because they have been activated and no longer apply.]~~ **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. Deleted. [Basis: FCCU/CKR Scrubber and Main Stack triggers removed because they have been activated and no longer apply.] **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~~

IV. Permit Conditions

~~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 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. 214.5 tons/calendar year.~~

c. ~~Deleted. [Basis: FCCU/CKR Scrubber and Main Stack triggers removed because they have been activated and no longer apply.]~~ **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. ~~Deleted. [Basis: FCCU/CKR Scrubber and Main Stack triggers removed because they have been activated and no longer apply.]~~ **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. ~~Deleted. [Basis: FCCU/CKR Scrubber and Main Stack triggers removed because they have been activated and no longer apply.]~~ **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. ~~Deleted. [Basis: Renumbered as Condition 20820 Part 63g.]~~ ~~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-Pre-scrubber/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:~~

IV. Permit Conditions

~~Banking~~

IV. Permit Conditions

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 kbb/d (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 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 FCCU/CKR Scrubber main stack annual emission limit (Part 6324). 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 (tons)		Contingency		Total Annual
		Base Line plus	VIP Increase	
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]

IV. Permit Conditions

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.

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 and volume (bbl) of crude oil by ship and barge, (2) the total number of deliveries and volume (bbl) of PGO by ship and barge, and (3) the total number of shipments and amount (tons) 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. ~~Deleted. [Completed. Offsets for VIP shipping have been provided.] 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 NOx, 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. ~~Deleted. [Completed. Offsets for VIP fugitives and crude tankage have been provided.]~~

IV. Permit Conditions

~~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]
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 kbb/d (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. ~~Deleted. [Basis: Initial source test has been completed.] 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,~~

IV. Permit Conditions

Recordkeeping

35. Deleted, [Basis: redundant with Part 58.]
36. For each remaining new fractionation/stripping process vessel (S-10374 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.
- Note: S-1034 and S-1035 have already been permitted as part of the Butamer Unit per Condition 24080. S-1036 has been permitted as part of the ULSD Unit per Condition 22949.
37. Upon startup of each remaining new 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 remaining new fractionation/stripping source, S-10374 through S-1045, 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]
39. For each remaining new hydrofining reactor process vessel (S-105349 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.
- Note: S-1049 and S-1050 have already been permitted as part of the Butamer Unit per Condition 24080. S-1051 and S-1052 have already been permitted as part of the ULSD Unit per Condition 22949.
40. Upon startup of each remaining new 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 remaining new hydrofining source, S-105349 through S-1056, in a District approved log. The Owner/Operator shall keep these records on site and make them available for District

IV. Permit Conditions

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 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 kbbl per day, daily maximum
 - 77 kbbl 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:

IV. Permit Conditions

[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 Crude Blow down system or the S-1006 Pipestill Unit beyond the following crude throughput limits: [Basis: Cumulative Increase]

180 kbbl per day, daily maximum
165 kbbl 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.

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 kbbl per day, daily maximum
40 kbbl 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

IV. Permit Conditions

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 kbbl 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

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

IV. Permit Conditions

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, [except during periods of operation of the plume abatement system to minimize plume visibility as required by CEQA](#). [Basis: Cumulative Increase, [Consent Decree VI.B Paragraph 67](#)]
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

Pollutant	Concentrations	Emissions
NOx	42.8 ppmvd @ 3% O ₂ 365-day avg.	610.6 tpy ²
NOx	85.6 ppmvd @ 3% O ₂ 7-day avg.	6,194 lbs/day, 7-day avg.
NOx	ppmvd ¹ @ 3% O ₂ 1-calendar day avg.	10,344 lbs/day ¹
SO ₂	21.4 ppmvd @ 3% O ₂ 365-day avg.	393.2 tpy
SO ₂	42.8 ppmvd @ 3% O ₂ 7-day avg.	4,309 lbs/day, 7-day avg.
SO ₂	440 ppmvd ¹ @ 3% O ₂ 1-calendar day avg.	22.1 ton/day ¹
CO	35.2 ppmvd @ 3% O ₂ 365-day avg.	209.5 tpy
CO	0 ppmvd ¹ @ 3% O ₂ 1-calendar day avg.	4,402 lbs/day ¹
PM ₁₀	lbs/hr ¹ as determined by BAAQMD ST-15 or EPA Method 17 in conjunction with EPA Methods 1, 2, 3 and 4	114.8 tpy
NMOC ³	ppmvd as tested by BAAQMD modified Method ST-7 or a combination of EPA Methods 18 and 25A	14.47 tpy

¹ These values may be adjusted based on source test results as specified in Parts 66, 67 and 68.

IV. Permit Conditions

² Emissions include startup, shutdown, emergency bypass or bypass scenarios.

³ NMOC: Non-methane organic compounds. [For the purposes of this condition, NMOC is equivalent to precursor organic compounds \(POC\).](#)

- a. The Owner/Operator shall monitor compliance with emissions limits above by using District approved continuous emission monitor (CEM) data for NO_x, 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, [AMP submitted to EPA on October 27, 2010](#)]
- 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 NO_x, CO and SO₂, and A-1047 flow rate, [excluding ambient air resulting from operation of the plume abatement system.](#) —In addition, the report shall include the estimated daily emissions of PM₁₀ and NMOC, [NMOC emissions will be based on an emission factors \(lb/MMdscf\) determined from source test data and applied to the actual average A-1047 flow rate, excluding ambient air resulting from operation of the plume abatement system. PM10 emissions will be based on quarterly source test data \(lbs/hr\) multiplied by daily hours of operation of the S-1059 and S-1060 PS Furnaces.](#) 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 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. ~~Deleted. [Basis: Initial source test for ammonia slip has been completed.]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]~~

IV. Permit Conditions

f. If FCCU/CKR Scrubber Stack 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]

g. 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]

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:

e.a. Startup of the SCR_s 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 SCR_s may last up to 12 hours per startup event. NO_x emissions on a concentration and mass basis will not be included in the 1-day, 7-day and 365-day average for this scenario.

e.b. Shutdown of the SCR_s 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 SCR_s may last up to 8 hours per shutdown event. NO_x emissions on a concentration and mass basis will not be included in the 1-day, 7-day and 365-day average for this scenario.

e.c. Emergency bypass of the SCR_s 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 SCR_s may last up to 7 days (168 hours) per each bypass event to permit catalyst replacement and restoration of abatement efficiency. NO_x emissions on a concentration and mass basis will not be included in the 1-day, 7-day and 365-day average for this scenario.

f.d. Bypass of the SCR_s is defined as when loading coke into the CKR before startup or unloading coke following a CKR shutdown, or during CKR burner level stabilization during CKR startup while the FCCU is operating or FCCU is not operating. The bypass of A-1059 and A-1060 SCR_s may last up to 96 hours to avoid coke dust entrainment in the PS Furnaces and SCR_s. NO_x 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]

IV. Permit Conditions

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% 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, Consent Decree VI.B Paragraph 67 (for Part 67a and 67b)]
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 – 35.2 ppmv, dry, corrected to 3% oxygen, any 365 consecutive days average, and (b) CO emissions – 100 ppmv, dry, corrected to 3% oxygen, as determined by CEM, 1-calendar day average, and (~~c~~) 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 (~~d~~) 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. Deleted. [Basis: Initial source test for NO_x, SO₂, CO, NMOC, and PM₁₀ has been completed.] No later than 90 days from the startup of the S-1059, S-1060, A-1059, A-1060

IV. Permit Conditions

~~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-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 ~~annually at least once per quarter~~ to demonstrate ~~subsequent~~ compliance with the NMOC and PM₁₀ mass rates specified in part 63. The time interval between source tests shall not exceed 16 months. 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. The District may revert the source test from annually to quarterly if any subsequent test result is more than 50% of the limit. 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]

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~~

IV. Permit Conditions

~~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. The initial source test has been completed for S-1059 and S-1060.

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. ~~Deleted. [Basis: Sources S-3, S-4, and A-1 through A-5 have been completely shut down on December 31, 2010. 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 SCR's, A-1047 FCCU/CKR Prescrubber/Regenerative Amine Scrubber. The owner/operator shall enter into the record log the date when the unit was shutdown.~~

77. 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)

Condition 21233

Valero Refining Company – California

3400 E. Second Street

Benicia, ~~Ca~~-CA 94510

Application 11307 (B2626)

Application 11356 (A0901, 13193)

S-20 (B2626) Modified by Application 12071

S-19 (A0901) Modified by Application 13011 and 15805

Application 22602 (B2626 – source test submittal dates)

Application 22609 (A0901 – source test submittal dates)

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

IV. Permit Conditions

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, <u>H-2A</u> , 14.7 MMBtu/hr	No
21	Steam Boiler, <u>H-2B</u> , 14.7 MMBtu/hr	No

A. Compliance with the daily refinery wide average NOx emission limit, 0.033 lb NOx/MMBtu fired duty is achieved through the use of an approved Alternate Compliance Plan using NOx IERCs in accordance with the provisions in Regulation 2-9-303.

B. The owner/operator of each source listed in Part 1 above shall determine compliance with Regulation 9-10 as follows:

- 1) Calculate NOx emissions from each furnace using measured fuel gas rates, and either:
 - a. CEM data or
 - b. NOx emission factors from Part 5A
- 2).The daily facility wide average emission rate shall be determined by dividing the combined total emissions from sources listed in Part 1 above by the combined total

IV. Permit Conditions

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 25 MMBtu/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
 - 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.

IV. Permit Conditions

D. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NOx Box, which represents the allowable operating range(s) for the furnace under which the NOx emission factor from part 5a is deemed to be valid.

- 1). The NOx Box can represent/utilize either one or two emission factors.
- 2). The NOx Box for each emission factor can be represented either as a 4- or 5-sided polygon. The NOx box is the area within the 4- or 5-sided polygon formed by connecting the source test parameters that lie about the perimeter of successful approved source tests. The source test parameters forming the corners of the NOx box are listed in Part 5.

E. Upon establishment of each NOx Box, the Owner/Operator shall prepare a graphical representation of the box. The representation shall be made available on-site for APCO review upon request. The box shall also be submitted to the BAAQMD with permit amendments.

5. Except as provided in part 5B & C, the Owner/Operator shall operate each source within the NOx Box ranges listed below at all times of operation. This part shall not apply to any source that has a properly operated and properly installed NOx CEM. (Basis: Regulation 9-10-502)

A. NOx Box ranges. The limits listed below are based on a calendar day averaging period for both firing rate and O2%.

Source No.	Emission Factor (lb/MMBtu)	Min O ₂ at Low Firing (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)						

IV. Permit Conditions

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 the District Source Test Manager within 45-60 days of the test. ~~The Owner/Operator may request, and the APCO may grant, an extension of 15 days for submittal of results.~~ As necessary, a permit amendment shall be submitted.

1) Source Test ≤ Emission Factor

If the results of this source test do not exceed the higher NOx emission factor in Part 5, or the CO limit in Part 9, the unit will not be considered to be in violation during this period for operating out of the "box."

The facility may submit an accelerated permit program permit application to request an administrative change of the permit condition to adjust the NOx Box operating range(s), based on the new test data.

2) Source Test > Emission Factor

IV. Permit Conditions

If the results of this source test exceed the permitted emission concentrations or emission rates then the actions described below must be followed:

- a. Utilizing the measured emission concentration or rate, the Owner/Operator shall perform an assessment of compliance with Regulation 9-10-301 as follows:
 1. "Out of Box" Condition – for the day(s) in which the "out of box" condition(s) occurred, the Owner/Operator shall ensure sufficient NOx IERCs are provided to ensure the facility is in compliance with the refinery wide limit. The Owner/Operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301.
 2. Within the Box – for the case when the source is operated within the "box" but source test results indicate a higher emission factor, the Owner/Operator shall apply the higher emission factor retroactively to the date of the previous source test and provide sufficient NOx IERCs for that time period to ensure the facility is in compliance with the refinery wide limit specified in Regulation 9-10-301. The Owner/Operator will be in violation of Regulation 9-10-301 for each day there are insufficient NOx IERCs provided to bring the refinery wide average into compliance with Regulation 9-10-301.
- b. The facility may submit a permit application to request an alteration of the permit condition to change the NOx emission factor and/or adjust the operating range, based on the new test data.

B. Reporting. The Owner/Operator must report conditions outside of box within 96 hours of occurrence.

7. For each source subject to Part 3, the Owner/Operator shall conduct source tests on the schedule listed below. The source tests are performed in order to measure NOx, CO, and O2 at the as-found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the District Source Test Manager within 45-60 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

IV. Permit Conditions

- 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 ~~45-60~~ 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 ~~45-60~~ days of the test.
- 3) If a source has been shutdown longer than the period allowed between source testing periods (e.g. <25 MMBtu/hr - > 16 mos or > 25 MMBtu/hr - > 8 mos), the owner/operator shall conduct the required source test within 30 days of start up of the source.

B. Source Test Results > NOx Box Emission Factor

If the results of any source test under this part exceed the permitted concentrations or emission rates the Owner/Operator shall follow the requirements of Part 6A2. If the Owner/Operator chooses not to submit an application to revise the emission factor, the Owner/Operator shall conduct another Part 7 source test, at the same conditions, within 90 days of the initial test.

8. For each source listed in Part 1 with a NOx CEM installed that does not have a CO CEM installed pursuant to Part 9, the Owner/Operator shall conduct semi-annual District approved CO source tests at as-found conditions. The time interval between source tests shall not exceed 8 months. District conducted CO emission tests associated with District-conducted NOx CEM field accuracy tests may be substituted for the CO semi-annual source tests. (Basis: Regulation 9-10-502)

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)

IV. Permit Conditions

~~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

Application 22998, July 2011

1. Pursuant to BAAQMD Toxic Section Policy, the owner/operator shall ensure that the annual gasoline throughput does not exceed 92,000,111,000 gallons in any consecutive 12 month period. (basis: cumulative increase)

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
Application 24386 (May 2012), Delete completed fugitive requirements. Update final fugitive count and emissions.

Application 24656 Consolidation of all fuel gas system requirements (September 2012)

FUGITIVE EQUIPMENT

- ~~1.~~ 1.a. Deleted. (Completed. All new light hydrocarbon control valves installed as part of the VIP-

IV. Permit Conditions

~~ULSD project were equipped with live-loaded packing systems and polished stems, or equivalent). 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. ~~_____~~ b. Deleted. (Completed. All new flanges/connectors installed in light hydrocarbon piping systems as part of the VIP-ULSD project were equipped with graphitic gaskets unless prevented by service requirements.) 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. ~~_____~~ c. Deleted. (Completed. The compressor installed as part of the ULSD project is equipped with dual mechanical seals.) 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. ~~_____~~ d. Deleted. (Completed. All new light hydrocarbon centrifugal pumps installed as part of the VIP-ULSD project are of seal-less design or are equipped with dual mechanical seals, or equivalent.) 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. ~~_____~~ e. Deleted. (Completed. All fugitive equipment installed as part of the VIP-ULSD project has been incorporated into the facility LDAR program). 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 VIP-ULSD Project. The final fugitive count was submitted on January 11, 2008. [Basis: Cumulative Increase, Toxics]~~

FUEL GAS SYSTEM

3. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 1c and 2g). 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]~~

IV. Permit Conditions

4. ~~Deleted. (Replaced by LPFG Condition 25342, Part 2b). 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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 3a). 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. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 4d and 5c). 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]

Pollutant	Annual (tons)
NOx	5.00
CO	8.92
SO ₂	1.52
PM ₁₀	1.25
POC	0.65

- a. The Owner/Operator shall determine annual emissions using fuel consumption, fuel heating value, continuous emission monitor (CEM) data for TRS, NOx 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 calendar year. The report shall include the actual daily emissions based on CEM data for

IV. Permit Conditions

NOx and CO, the actual daily emissions of SOx 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 NOx, CO and O2 on the common stack. [Basis: CEM Monitoring]
15. Deleted, initial startup source test requirement.

IV. Permit Conditions

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 kbbl/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 kbbl/day, Daily Average.
[Basis: Cumulative Increase]
22. The Owner/Operator shall maintain the daily unit throughputs for S-1036 (Stripper), S-1051 (Dioline 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]

IV. Permit Conditions

- 3.23. 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]

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

[APPLICATION 24379 \(August 2012\): Consolidated Consent Decree Requirements](#)

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)

CONDITION 24080

IV. Permit Conditions

APPLICATION 18750 (Oct 2008). S-1034 (Deisobutanizer), S-1035 (Stripper), S-1049 (Reactor), S-1050 (Reactor) Alkylation/Butamer Unit

Application 24386 (May 2012), Delete completed fugitive requirements. Update final fugitive count and emissions.

Application 24329 (October 2012), VIP Cleanup – Relocation of S-1034 Production Limit and Recordkeeping from Condition 20820

FUGITIVE EQUIPMENT

1.
 - a. Deleted. (Completed. All new light hydrocarbon control valves installed as part of the VIP-Butamer project were equipped with live-loaded packing systems and polished stems, or equivalent).~~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. Deleted. (Completed. All new flanges/connectors installed in light hydrocarbon piping systems as part of the VIP-Butamer project were equipped with graphitic gaskets unless prevented by service requirements.~~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. Deleted. (Completed. All new light hydrocarbon centrifugal pumps installed as part of the VIP-Butamer project are of seal-less design or are equipped with dual mechanical seals, or equivalent.)~~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. Deleted. (Completed. All fugitive equipment installed as part of the VIP-Butamer project (AN 17876) has been incorporated into the facility LDAR Program.)~~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 2.08-0.38 TPY for the entire Alkylation Modification/VIP-Butamer project. The final project fugitive component count was submitted on March 22, 2010. -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

IV. Permit Conditions

~~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]~~

3. For the S-1034 Butamer Unit Deisobutanizer (T-4801), the Owner/Operator shall not operate the sources beyond the following IC4 production rate limitation:
5 kbbbl/day, Daily Average.
[Basis: Cumulative Increase]

4. The Owner/Operator shall maintain the daily IC4 production rate for S-1034 Butamer Unit Deisobutanizer (T-4801), 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]

2.

IV. Permit Conditions

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~~

~~APPLICATION 13201, Correct NSPS J H2S Concentration (Oct 2005)~~

~~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~~

~~Application 24386 (May 2012), Delete completed fugitive requirements. Update final fugitive count and emissions.~~

~~APPLICATION 24656 Consolidation of all fuel gas system requirements (September 2012)~~

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

IV. Permit Conditions

- G. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. The Owner/Operator shall retain all records for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: [Basis: BACT]

Fuel usage type and amount for:
S-220 Hot Oil System
S-21 Hydrogen Reformer Furnace or
S-22 Hydrogen Reformer Furnace

CEM data and CEM indicated excesses;
[Partially Deleted. \(H2S/TRS recordkeeping replaced by LPPG Condition 25342, Part 4a\)](#)
[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

IV. Permit Conditions

S-1003 Hydrocracking Unit

1. ~~Deleted. (Completed. All new light hydrocarbon pumps installed as part of the Clean Fuel Project (CFP) were equipped with BACT technologies). The Owner/Operator shall equip any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics]~~
 - a) ~~equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure.~~
 - b) ~~equipped with a "canned" pump~~
 - c) ~~equipped with a magnetically driven pump~~
4. ~~Deleted. (Completed. All new hydrocarbon flow control valves installed as part of the CFP were equipped with live-loaded packing systems and polished stems, or equivalent). 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. ~~Deleted. (Completed. All All new hydrocarbon valves greater than 2" installed as part of the CFP were equipped with bellow sealed, live-loaded, graphitic-packed, Teflon packed valves, or equivalent). 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. ~~Deleted. (Completed. All new flanges installed as part of the CFP were equipped with graphitic based gaskets, except in services where asbestos type gasket is required). 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. ~~Deleted. (Completed. All new hydrocarbon centrifugal compressors installed as part of the CFP were 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 vent to a control device having at least 95% control efficiency. All new compressor in hydrocarbon service with less than 50% hydrocarbon must comply with NSPS 40, Subpart GGG standard). 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~~

IV. Permit Conditions

- ~~applicable standards of NSPS 40 CFR Part 60, Subpart GGG. [Basis: BACT, Offsets, Cumulative Increase, Toxics, NSPS]~~
11. ~~Deleted. (Completed. All process drain installed as part of the CFP were equipped with P-trap sealing system).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. The final CFP fugitive count was submitted on prior to issuance of the Permit to Operate. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]

FUEL GAS SYSTEM

13. ~~Deleted. (Replaced by LPFG Condition 25342, Parts 1b and 1d).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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 2d).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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 3a).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. ~~Deleted. (Replaced by LPFG Condition 25342, Part 4a and 5a). 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]~~

IV. Permit Conditions

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. [Partially Deleted. \(Replaced by LPFG Condition 25342, Part 2d\). 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>

S-21 or S-22 and S-220

Pollutant	Annual (tons)
NOx (1)	17.11 (S-220 only)
CO (2)	134.904
SO2 (2)	59.358
PM10 (2)	26.981
POC (2)	15.514

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 [776](#).

19. The Owner/Operator shall equip the two 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

IV. Permit Conditions

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]

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

IV. Permit Conditions

- 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 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 776.
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,

IV. Permit Conditions

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]

ALKYLATE PRODUCTION PROJECT (AN 3782)

OFFSETS (DISTRICT EMISSIONS BANK)

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 Owner/Operator has been permitted to install fugitive components for the Alkylation Production Project (AN 3782). 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 final project fugitive count was submitted on July 18, 2005. 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~~

APPLICATION 21573 (Mar 2010) P-69 Dump Stack condition is added to the FCCU S-5 and Coker Unit S-6

APPLICATION 24329 (October 2012), VIP Cleanup

APPLICATION 24450 (November 2012), Reduced source Test Frequency for S-1059 and S-1060 Pipestill Furnaces

IV. Permit Conditions

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 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. [Basis: Regulation 2-1-403]
5. The Owner/Operator shall abate the emissions from the S-1059 and S-1060, PS Furnaces by SCRs 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). [Basis: Regulation 6-1-301 and Regulation 6-1-304].
6. Deleted (Basis: Redundant with ~~quarterly~~ annual 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 more than 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 6-301 shall

IV. Permit Conditions

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 more than 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 6-330]
9. Deleted (Basis: Redundant with quarterly annual 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 more than 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.

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 n-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 55-50 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 more than 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,

IV. Permit Conditions

Rule 10, to monitor compliance for all NOx 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]

16. Deleted. Requirements to prepare test plans, train employees, and install necessary equipment have been completed.

17. The Owner/Operator shall install continuous level monitors on two water seal compartments of the FCCU/CKR Dump Stack P-69, including continuous data historization for the parametric level monitors, and maintain the instrument in good operating condition at all times. The District may assume the opacity has exceeded a Ringelmann 1-1/2 when a breakthrough is recorded by the continuous level monitor, except where it can be confirmed that the dump stack was not used or an opacity excess did not occur. The Owner/Operator shall document the circumstances of such exceptions in a letter to the District within 30 days following such an indicated breakthrough. [Basis: Regulation 6-1-302, Regulation 1-441]

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

[APPLICATION 24379 \(August 2012\): Consolidated Consent Decree Requirements](#)

1. ~~Deleted (Replaced by Consent Decree Condition 24245 Part 19). 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. ~~Deleted (Replaced by Consent Decree Condition 24245 Part 17). 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. ~~Deleted (Replaced by Consent Decree Condition 24245 Part 18). 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), measured as a one hour~~

IV. Permit Conditions

~~average over three performance test runs. (Basis: Consent Decree VII. Paragraph 95)~~

4. ~~Deleted (Replaced by Consent Decree Condition 24245 Part 22). 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. ~~Deleted (Replaced by Consent Decree Condition 24245 Part 20). 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 560.7, 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. ~~Deleted (Replaced by Consent Decree Condition 24245 Part 21).~~

7. Alternative Monitoring Plans for NSPS J compliance:

- 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 CPMS AMP in accordance with Condition 20820, Part 63b.
- 6-d. Alternative monitoring for O2 CEMS span. Compliance with O2 CEMS span specification demonstrated by AMP submitted to EPA in October 2012. (Basis: 40 CFR 60.13(i), Alternate Monitoring Plans, Consent Decree Condition 24245, Parts 21, 23, and 24) 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:~~

IV. Permit Conditions

- ~~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 CPMS AMP in accordance with Condition 20820, Part 63b, COMS in approved alternate stack location. AMP approved by EPA February 18, 2009. (Basis: 40 CFR Part 60.13(i), 40 CFR 63.8(f), Alternate Monitoring Plans)~~~~

CONDITION # 24245

APPLICATION 18165 (Jan 2009): Add NSPS Subpart J SO₂ emission standards per Consent Decree

APPLICATION 24379 (June 2012): Consolidated Consent Decree Requirements

NOTE: The Consent Decree referenced in this condition is: Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et. Al. in the United States District Court, Western Division of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005.

- ~~1. Deleted (Replaced by Consent Decree Condition 24245, Parts 35, 42 and 43). 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. Deleted (Replaced by Consent Decree Condition 24245, Parts 44 and 45). 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. Deleted (Replaced by Consent Decree Condition 24245, Parts 35 and 46). 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)~~

IV. Permit Conditions

4. ~~Deleted (Replaced by Consent Decree Condition 24245, Parts 9, 29, 30, and 34). S7 Process Furnace (F103) ————— S32 Process Furnace (F2903) —————
S20 Process Furnace (F104) ————— S33 Process Furnace (F2904)
S24 Process Furnace (F601) ————— S34 Process Furnace (F2905)
S25 Process Furnace (F701) ————— S35 Process Furnace (F2906)
S30 Process Furnace (F2901) ————— S42 Process Furnace (F1060)
S31 Process Furnace (F2902)~~

~~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 §§ 12, 115, 118, 122)~~

5. ~~Deleted (Replaced by Consent Decree Condition 24245, Part 32). 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 fuel gas combustion devices listed in Part 4 of this permit condition. (Basis: EPA Consent Decree paragraph 120)~~

6. ~~Deleted (Replaced by Consent Decree Condition 24245, Part 33). 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. ~~Deleted (Replaced by Consent Decree Condition 24245, Part 33). 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)~~

IV. Permit Conditions

NOx Emissions Reductions from Heaters and Boilers

8. Valero shall implement various NOx emission reduction measures and techniques to achieve system-wide NOx emission levels for certain identified heaters and boilers at Valero's Benicia Refinery. For purposes of this Consent Decree, "heaters and boilers" shall be defined to include any stationary combustion unit used for the purpose of burning fossil fuel for the purpose of (i) producing power, steam or heat by heat transfer or (ii) heating a material for initiating or promoting a process or chemical reaction in which the material participates as a reactant or catalyst, but expressly excluding any turbine, internal combustion engine, duct burner, CO boiler, incinerator or incinerator waste heat boiler. (Basis: Consent Decree IV.A Paragraph 12)
9. Appendix B to this Consent Decree (the "Initial Inventory") provides an initial list of all heaters and boilers for which heat input capacity is greater than 40 MMBTU/hr (HHV). For purposes of this Consent Decree, "Covered Heaters and Boilers" shall include all heaters and boilers with heat input capacity greater than 40 MMBTU/hr (HHV) regardless of any applicable firing rate permit limitations. (Basis: Consent Decree IV.A Paragraph 13)

Appendix B of the Consent Decree Initial Inventory of covered Heaters and Boiler

F-30150 H2 Reforming Furnace, NOx CEMs installed
F-351 H2 Reforming Furnace, NOx CEMs installed
F-2901-4-(2) Powerformer Furnace, NOx CEMs installed
F-4460 MRU Hot Oil Furnace, NOx CEMs installed
SG-1032 New Boiler, NOx CEMs installed
F-701 FCCU Preheat Furnace, NOx CEMs installed
SG-2301 Utility Package Boiler, NOx CEMs installed
SG-2302 Utility Package Boiler, NOx CEMs installed
F-401 HCU Recycle Gas Furnace, NOx CEMs installed
SG-2901 Powerformer Aux. Boiler, no NOx CEMs
F-2905 Powerformer Regen Furnace, no NOx CEMs
F-104 Naphtha HF Furnace, no NOx CEMs
F-103 Pipestill HF Jet Furnac, no NOx CEMs

10. The Initial Inventory identifies previously constructed heaters and boilers that comprise the initial list of Covered Heaters and Boilers. The Initial Inventory also provides the following information concerning the Covered Heaters and Boilers:
- a) Identification of all applicable NOx emission limitations, in pounds per million BTU, for each of the Covered Heaters and Boilers.

IV. Permit Conditions

- b) Identification of heat input capacity, and the source of such identification, for each of the Covered Heaters and Boilers. For purposes of this subparagraph, heat input capacity for each Covered Heater or Boiler shall equal the lesser of any applicable permit limit or Valero's best then-current estimate of its maximum heat input capacity (hereinafter, "Heat Input Capacity");
- c) Identification of all applicable NOx emission limitations, in pounds per million BTU, for each of the Covered Heaters and Boilers. For purposes of this part, the applicable NOx emissions limitation for each of the Covered Heaters and Boilers at the Benicia Refinery shall be berposes of this part, as more fully described below; and
- d) Statement of whether a continuous emission monitoring system ("CEMS") for NOx has been installed on the respective Covered Heater or Boiler. (Basis: Consent Decree IV.A Paragraph 14)

11. Valero shall satisfy Sections 9-10-301 and 9-10-403 of BAAQMD Regulation IX, Rule 10, as such provisions both relate to Covered Heaters and Boilers at the Benicia Refinery and establish NOx emission standards for certain units, including the Covered Heaters and Boilers at the Benicia Refinery, based upon an emission level of 0.033 lbs.-NOx/MMBTU. Compliance with these requirements shall be determined in accordance with BAAQMD's rules and regulations, including without limitation the interchangeable emission reduction credit ("IERC") provisions of BAAQMD Regulation II, Rule 9. Nothing in this Consent Decree is intended or shall be construed to limit the methods available to Valero under the BAAQMD rules and regulations for compliance with Sections 9-10-301 and 9-10-403 thereof; provided however, no credits generated under the BAAQMD rules and regulations may be traded or sold to another facility, as is expressly proscribed by Paragraph 296(d). (Basis: Consent Decree IV.A Paragraph 24)

12. For the purpose of demonstrating compliance, each of the Covered Heaters and Boilers at the Benicia Refinery shall be deemed to emit 0.033 lbs.-NOx/MMBTU (as 12-month averages). This paragraph imposes no independent permitting requirements upon the Benicia Refinery. (Basis: Consent Decree IV.A Paragraph 25)

SO2 Emission Reductions from FCCU

13. Valero shall install and operate a regenerative scrubber to control SO2 emissions from the Benicia Fluid Coker. Valero shall design and operate the regenerative scrubber and comply with emission limits of no greater than 25 ppmvd, measured as a 365-day rolling average and 50 ppmvd, measured as a 7-day rolling average, both at 0% O2. (Basis: Consent Decree VI.B Paragraph 67)

14. CEMS will be used to demonstrate compliance with the respective SO2 concentration emission limits established pursuant to this Part VI. Valero shall make CEMS data available to EPA and any appropriate Plaintiff-Intervener upon demand as soon as practicable.

IV. Permit Conditions

Except as specified in Paragraph 93, Valero shall install, certify, calibrate, maintain and operate all CEMS required by this paragraph in accordance with the provisions of 40 C.F.R. § 60.13 that are applicable to CEMS (excluding those provisions applicable only to continuous opacity monitoring systems) and Part 60, Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60, Appendix B. With respect to 40 C.F.R. Part 60 Appendix F, in lieu of the requirements of 40 C.F.R. Part 60, Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, Valero must conduct either a RAA or a RATA on the CEMS at least once every three (3) years. Valero must also conduct a CGA each calendar quarter during which a RAA or a RATA is not performed. Valero may conduct a FAT, as defined in BAAQMD regulations or procedures, in lieu of the required RAA or CGA. (Basis: Consent Decree VI.B Paragraph 90)

15. All CEMS data collected by Valero effective life of the Consent Decree shall be made available by Valero to EPA upon demand as soon as practicable. (Basis: Consent Decree VI.B Paragraph 92)

16. Valero shall submit to EPA a complete site specific monitoring plan for utilizing a combination of SO₂/TRS CEMS upstream of the CO boiler at the Benicia Refinery. A new CEMS must be installed in the existing ductwork upstream of the CO boiler in order to monitor SO₂/TRS in the FCCU flue gas prior to mixing with the Coker Unit flue gas. The existing ductwork configuration may make it impossible to meet all Appendix A requirements for CEMS locations. Valero will locate the CEM in the most appropriate location available. (Consent Decree VI.B Paragraph 93)

CO, OPACITY AND PARTICULATE EMISSIONS FROM FCCU

17. CO Emission Standard. Valero shall limit CO emissions from the FCCU to 500 ppmvd (at 0% O₂), measured as a one-hour block average. (Basis: Consent Decree VII Paragraph 94).

18. Particulate Emission Standard. Valero shall limit particulate emissions from the FCCU to one (1) pound per 1,000 pounds of coke burned (front half only according to Method 5B or 5F, as appropriate), measured as a one-hour average over three performance test runs. (Basis: Consent Decree VII Paragraph 95).

19. Except as specified in Paragraph 105, Valero shall ensure that the FCCU shall comply with the CO, opacity and particulate emission standards specified in Paragraphs 94 and 95, respectively, and all applicable requirements of 40 C.F.R. Part 60, Subparts A and J, as such requirements relate to CO, opacity and particulate emissions from the FCCU regenerator. (Basis: Consent Decree VII Paragraph 96).

20. Lodging of this Consent Decree shall satisfy any obligation otherwise applicable to Valero to provide notification in accordance with 40 C.F.R. Part 60, Subparts A and J, including

IV. Permit Conditions

without limitation 40 C.F.R. § 60.7, with respect to the provisions of 40 C.F.R. Part 60, Subparts A and J, as such requirements relate to CO, opacity and particulate emissions from FCCU regenerators. (Basis: Consent Decree VII Paragraph 100).

21. A CEMS or an EPA approved alternative monitoring plan or monitoring waiver will be used to demonstrate compliance with the respective CO emission limits established pursuant to this Part VII. Valero shall make CEMS data available to EPA and any appropriate Plaintiff-Intervener upon demand as soon as practicable. Valero shall install, certify, calibrate, maintain and operate all CEMS required by this paragraph in accordance with the provisions of 40 C.F.R. § 60.13 that are applicable to CEMS (excluding those provisions applicable only to continuous opacity monitoring systems) and Part 60, Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60, Appendix B. With respect to 40 C.F.R. Part 60 Appendix F, in lieu of the requirements of 40 C.F.R. Part 60, Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, Valero must conduct either a RAA or a RATA on each CEMS at least once every three (3) years. Valero must also conduct a CGA each calendar quarter during which a RAA or a RATA is not performed. B. To the extent that Valero has conducted any performance testing of the relevant unit for PM emissions, and such performance testing was conducted in accordance with the procedures specified in EPA Method 5B or 5F, as appropriate, or 40 C.F.R. Part 63, Subpart UUU, and demonstrated compliance with the emission limits established under this part, then such performance testing shall satisfy any obligation otherwise applicable under this Part to conduct performance testing under 40 C.F.R. Part 60, Subparts A and J. Any future performance testing performed by Valero to demonstrate compliance with the particulate emission limitations established by this Part shall be conducted in accordance with EPA Method 5B or 5F, as appropriate, set forth at 40 C.F.R. Part 60, Appendix A. (Basis: Consent Decree VII Paragraph 101)

22. The CO, opacity, and particulate limits established pursuant to this Part VII shall not apply during periods of startup, shutdown or malfunction of the FCCU or malfunction of the applicable CO or particulate control equipment, if any, provided that during startup, shutdown or malfunction, Valero shall, to the extent practicable, maintain and operate the relevant affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: Consent Decree VII Paragraph 102)

23. Continuous Opacity Monitoring System (COMS) or an approved AMP will be used to demonstrate compliance with the respective opacity limits established pursuant to this Part VII. Valero shall make COMS data available to EPA and any appropriate Plaintiff-Intervener upon demand as soon as practicable. Valero shall install, certify, calibrate, maintain and operate all COMS required by this paragraph in accordance with the provisions of 40 C.F.R. §60.11, §60.13, and Part 60 Appendix A, and the applicable

IV. Permit Conditions

performance specification test in 40 C.F.R. Part 60 Appendix B. (Basis: Consent Decree VII Paragraph 103)

24. Valero shall submit to EPA complete alternative monitoring plan (“AMP”) applications to utilize engineering calculations to convert CO and opacity emission data recorded by the CEMS on, and particulate emission data measured during the performance test of, the Benicia combined FCCU/Fluid Coker emissions to equivalent CO, opacity, and particulate emissions from the FCCU. (Basis: Consent Decree VII Paragraph 105)

NSPS APPLICABILITY TO SO2 EMISSIONS FROM FCCU REGENERATORS

25. Valero’s FCCU Regenerator shall be considered “affected facilities” pursuant to 40 C.F.R. Part 60, Subpart J, and shall comply with all requirements of 40 C.F.R. Part 60, Subparts A and J, as such provisions relate to SO2 emissions from FCCU Regenerators. (Basis: Consent Decree VIII Paragraph 107)

26. Lodging of this Consent Decree shall satisfy any obligation otherwise applicable to Valero to provide notification in accordance with 40 C.F.R. Part 60, Subparts A and J, including without limitation 40 C.F.R. § 60.7, with respect to the provisions of 40 C.F.R. Part 60, Subparts A and J, as such provisions relate to SO2 emissions from FCCU regenerators. (Basis: Consent Decree VIII Paragraph 108)

27. CEMS will be used to demonstrate compliance with the respective SO2 emission limits established pursuant to this Part VIII. Valero shall make CEMS data available to EPA and any appropriate Plaintiff-Intervener upon demand as soon as practicable. Valero shall install, certify, calibrate, maintain and operate all CEMS required by this paragraph in accordance with the provisions of 40 C.F.R. § 60.13 that are applicable to CEMS (excluding those provisions applicable only to continuous opacity monitoring systems) and Part 60, Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60, Appendix B. With respect to 40 C.F.R. Part 60 Appendix F, in lieu of the requirements of 40 C.F.R. Part 60, Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, Valero must conduct either a RAA or a RATA on each CEMS at least once every three (3) years. Valero must also conduct a CGA each calendar quarter during which a RAA or a RATA is not performed. Valero may conduct a FAT, as defined in BAAQMD regulations or procedures, in lieu of the required RAA or CGA. (Basis: Consent Decree VIII Paragraph 109)

28. The SO2 limits established pursuant to this Part shall not apply during periods of startup, shutdown or malfunction of the FCCU or the malfunction of SO2 control equipment, if any, provided that during startup, shutdown or malfunction, Valero shall, to the extent practicable, maintain and operate the relevant affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: Consent Decree VIII Paragraph 110)

IV. Permit Conditions

SO2 AND NSPS REQUIREMENTS FOR HEATERS AND BOILERS

29. Valero shall ensure that all heaters and boilers located at the Benicia Refinery are “affected facilities” as fuel gas combustion devices, for purposes of 40 C.F.R. Part 60, Subpart J, and shall comply with all requirements of 40 C.F.R. Part 60, Subparts A and J, as such requirements apply to fuel gas combustion devices. (Basis: Consent Decree IX Paragraph 115)

30. All heaters and boilers shall comply with the applicable requirements of NSPS Subpart A and J for fuel gas combustion devices, except for those heaters or boilers listed in Appendix O, which shall be affected facilities and shall be subject to and comply with the requirements of NSPS Subparts A and J for fuel gas combustion devices by the dates listed in Appendix O. All CEMS installed pursuant to this paragraph shall be installed, certified, calibrated, maintained and operated in accordance with the applicable requirements of 40 C.F.R. §§ 60.11 and 60.13 and 40 C.F.R. Part 60, Appendix F as provided in Paragraph 121. (Basis: Consent Decree IX Paragraph 118)

Appendix O of the eConsent Decree Specific Heater and Boiler NSPS Schedule

<u>Heater/Boiler</u>	<u>NSPS Compliance Date</u>
<u>F-801 Cat Naphtha Hydrofiner Heater</u>	<u>December 31, 2010</u>

31. Valero may submit to EPA complete alternative monitoring plan (“AMP”) applications for NSPS Subpart J monitoring fuel gas combustion devices. Valero shall submit a complete AMP application to EPA and the appropriate Plaintiff-Intervener. If such AMP is not approved, Valero shall within ninety (90) days of receiving notice of such disapproval submit to EPA for approval, with a copy to the appropriate Plaintiff-Intervener, a plan and schedule that provides for compliance with the applicable monitoring requirements under NSPS Subpart J as soon as practicable. Such plan may include a revised AMP application, physical or operational changes to the equipment, or additional or different monitoring. For some heaters and boilers that combust low-flow VOC streams from vents, pump seals and other sources, it is anticipated that some AMP applications will rely in part on calculating a weighted average H2S concentration of all VOC and fuel gas streams that are burned in a single heater or boiler and demonstrating with alternative monitoring that either the SO2 emissions from the heater or boiler will not exceed 20 ppm or that the weighted average H2S concentration is not likely to exceed 162 ppm H2S. EPA shall not reject an AMP solely due to the AMP’s use of one of these approaches to demonstrating compliance with NSPS Subpart J. (Basis: Consent Decree IX Paragraph 119)

IV. Permit Conditions

32. Lodging of this Consent Decree shall satisfy any obligation otherwise applicable to Valero to provide notification in accordance with 40 C.F.R. Part 60, Subparts A and J, including without limitation 40 C.F.R. § 60.7, with respect to the provisions of 40 C.F.R. Part 60, Subparts A and J, as such requirements apply to fuel gas combustion devices. (Basis: Consent Decree IX Paragraph 120)
33. The CEMS or approved AMPs will be used to demonstrate compliance with the respective H2S/SO2 concentration emission limits established pursuant to this Part IX. Valero shall make CEMS data available to EPA and any appropriate Plaintiff-Intervener upon demand as soon as practicable. Valero shall install, certify, calibrate, maintain and operate all CEMS required by this paragraph in accordance with the provisions of 40 C.F.R. § 60.13 that are applicable to CEMS (excluding those provisions applicable only to continuous opacity monitoring systems) and Part 60, Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60, Appendix B. With respect to 40 C.F.R. Part 60 Appendix F, in lieu of the requirements of 40 C.F.R. Part 60, Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, Valero must conduct either a RAA or a RATA on each CEMS at least once every three (3) years. Valero must also conduct a CGA each calendar quarter during which a RAA or a RATA is not performed. Valero may conduct a FAT, as defined in BAAQMD regulations or procedures, in lieu of the required RAA or CGA. (Basis: Consent Decree IX Paragraph 121)
34. The SO2 limits established pursuant to this Part shall not apply during periods of startup, shutdown or malfunction of the heaters and boilers or the malfunction of SO2 control equipment, if any, provided that during startup, shutdown or malfunction. Valero shall, to the extent practicable, maintain and operate the relevant affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: Consent Decree IX Paragraph 122)

NSPS SUBPARTS A AND J SO2 EMISSIONS FROM CLAUS SULFUR RECOVERY PLANTS (“SRP”) AND FLARING

35. “Hydrocarbon Flaring Device” shall mean a flare device listed in Appendix N at Valero’s Benicia Refinery. Valero shall provide notice to EPA, within the next report to be submitted pursuant to Part XVI, of any new Hydrocarbon Flaring Device which is installed at a refinery, subject to this Consent Decree subsequent to the Date of Entry of this Consent Decree. To the extent that the refinery utilizes Hydrocarbon Flaring Devices other than those specified on Appendix N for the purposes of combusting any excess of a refinery-generated gas other than Acid Gas and/or Sour Water Stripper Gas, those Hydrocarbon Flaring Devices shall be covered under this Consent Decree. (Basis: Consent Decree XII.A Paragraph 220(7.))

Appendix N of the Consent Decree Hydrocarbon Flaring Devices - Benicia

IV. Permit Conditions

Butane Tank Flare

South Flare

North Flare

36. "Sulfur Recovery Plant" or "SRP" shall mean a process unit that recovers sulfur from hydrogen sulfide by a vapor phase catalytic reaction of sulfur dioxide and hydrogen sulfide. (Basis: Consent Decree XII.A Paragraph 220(15.))

37. The SRPs at Valero's Benicia Refinery shall be "affected facilities" pursuant to 40 C.F.R. Part 60, Subpart J, and shall comply with the applicable provisions of 40 C.F.R. Part 60, Subparts A and J, as such requirements apply to SRPs. (Basis: Consent Decree XII.A Paragraph 221)

38. All emission points (stacks) to the atmosphere for tail gas emissions from the SRPs will be monitored and reported upon in accordance with 40 C.F.R. §§ 60.7(c), 60.13, and 60.105. This requirement is not applicable to the AG Flaring Devices identified in Appendix K. (Basis: Consent Decree XII.A Paragraph 224)

Appendix K of the Consent Decree

Acid Gas Flaring Devices - Benicia

Acid Gas Flare

39. Nothing in this Consent Decree shall be interpreted to limit Valero's opportunity to submit for EPA approval alternative monitoring procedures or requirements pursuant to 40 C.F.R., Part 60, Subpart A, for emissions from SRPs. (Basis: Consent Decree XII.A Paragraph 225)

40. Valero shall re-route any SRP sulfur pit emissions such that all sulfur pit emissions to the atmosphere are either eliminated or included as part of the applicable SRP's emissions subject to NSPS Subpart J limit for SO₂, as a 12-hour rolling average, of 250 ppmvd SO₂, or 300 ppm reduced sulfur, each at 0% oxygen, as required by 40 C.F.R. § 60.104(a)(2). (Basis: Consent Decree XII.A Paragraph 226)

41. During the life of this Consent Decree and for the purpose of determining compliance with the SRP emission limits, Valero shall apply the "startup" and "shutdown" provisions set forth in NSPS Subpart A to the SRP but not to the independent startup or shutdown of its corresponding control device(s) (e.g., TGTU). However, the malfunction exemption set forth in NSPS Subpart A shall apply to both the SRP and its control device(s) (e.g., TGTU). (Basis: Consent Decree XII.A Paragraph 227)

42. Valero shall accept NSPS Subpart J applicability for each Flaring Device at their refineries, as currently identified in Appendix N. (Basis: Consent Decree XII.A Paragraph 231)

43. Valero shall continue to operate the existing flare gas recovery systems at the Benicia

IV. Permit Conditions

Refinery on those flares covered by such systems. Valero will accept NSPS Subpart J applicability to the North Flare at the Benicia Refinery beginning December 31, 2006. (Basis: Consent Decree XII.A Paragraph 232)

44. For each Flaring Device, Valero will elect to use the following NSPS Subpart J compliance methods:
- a. Operate and maintain a flare gas recovery system to control continuous or routine combustion in the Flaring Device. Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 C.F.R. §§ 60.105(a)(4) and 60.7. (Basis: Consent Decree XII.A Paragraph 235)
45. Valero will certify compliance to EPA and the applicable Plaintiff-Intervener with one or more of the four compliance methods in Paragraph 235 and will accept NSPS applicability for all of the Flaring Devices in Appendix N. (Basis: Consent Decree XII.A Paragraph 239)
46. The combustion in a Flaring Device of process upset gases or fuel gas that is released to the Flaring Device as a result of relief valve leakage or other emergency malfunctions is exempt from the requirement to comply with 40 C.F.R. § 60.104(a)(1). (Basis: Consent Decree XII.A Paragraph 241)

BENZENE WASTE NESHAP PROGRAM ENHANCEMENTS – Carbon Canisters

47. From the Date of Entry and through termination of the Consent Decree, “breakthrough” between the primary and secondary canister is defined as any reading equal to or greater than 100 ppm VOCs or 5 ppm benzene. In the event that Valero elects to monitor for both VOCs and benzene pursuant to this provision, then “breakthrough” between the primary and secondary canister shall be defined only as a reading greater than 5 ppm benzene, provided that Valero satisfies the following conditions (Basis: Consent Decree X.E Paragraph 141)
- a. Valero shall collect and analyze the sample for benzene as soon as practical, and in no event later than 24 hours after obtaining the relevant VOC reading; and
 - b. Valero shall conduct monitoring for benzene breakthrough between the primary and secondary carbon canisters for the subject dual carbon canister system until such time as it replaces the relevant primary carbon canister with the secondary carbon canister pursuant to Paragraph 143 according to the following schedule:
 - i. where the design carbon replacement interval for the unit is less than or equal to 30 days, Valero shall monitor every operating weekday;
 - ii. where the design carbon replacement interval for the unit is 31 to 60 days, Valero shall monitor at least twice a week;
 - iii. where the design carbon replacement interval for the unit is greater than sixty (60) days, Valero shall monitor at least weekly.

IV. Permit Conditions

48. By no later than seven (7) days after the Date of Entry of the Consent Decree (for existing dual canister systems), and by no later than seven (7) days after the installation of each new dual canister system, Valero shall start to monitor for breakthrough between the primary and secondary carbon canisters at times when the source is connected to the carbon canister, and during periods of normal operation in accordance with the frequency specified in 40 C.F.R. § 61.354(d) (but in no event less frequently than once per month), or alternatively at least once on each operating weekday. (Basis: Consent Decree X.E Paragraph 142)
49. Valero shall replace the original secondary carbon canister with a fresh carbon canister immediately when breakthrough between the primary and secondary canister is detected. The original secondary carbon canister will become the new primary carbon canister and the fresh carbon canister will become the secondary canister. (Basis: Consent Decree X.E Paragraph 143)
- a. For carbon canisters not qualifying as engineered carbon canister systems pursuant to this paragraph, “immediately” shall mean within twenty-four (24) hours; provided, however, that if breakthrough is determined on a Saturday, Sunday, or holiday, then Valero shall replace the original primary carbon canister by the end of the next regular work day if Valero begins monitoring the secondary canister at least once per operating day until the primary canister is replaced.
- b. For engineered carbon canister systems, “immediately” shall mean not more than fourteen (14) days if Valero monitors the secondary canister at least once per operating day until the carbon in the primary canister is replaced and such monitoring of the secondary canister does not reveal “breakthrough”, as defined in Paragraph 141. If breakthrough from the secondary canister is revealed, Valero shall replace the secondary carbon canister within twenty-four hours of securing such monitoring results. For purposes of this Paragraph 143, “engineered carbon canister systems” shall mean carbon systems with fixed vessels for which each vessel has a capacity of carbon in excess of 5000 pounds.
- c. In lieu of replacing a primary or secondary carbon canister pursuant to the terms of this paragraph, Valero may elect to discontinue flow of benzene containing streams to the relevant carbon canister system until such system is replaced.
50. Valero shall maintain or otherwise provide for a reasonable supply of fresh carbon and carbon canisters at each of Valero’s Refineries. (Basis: Consent Decree X.E Paragraph 144)

CONDITION 24261

APPLICATION 18165 (Feb 2009): AMPs for NOx CEMS Span, S-220, S-237, S-1031

IV. Permit Conditions

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 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.~~

IV. Permit Conditions

- ~~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.~~~~
- ~~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).~~

IV. Permit Conditions

- ~~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.~~
- ~~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~~

IV. Permit Conditions

~~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.~~

COND# 24298

Application 22998, July 2011

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.

IV. Permit Conditions

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 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.

IV. Permit Conditions

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.

IV. Permit Conditions

Condition 24309

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)]
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)]
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~~(de)~~(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~~(fg)~~]

IV. Permit Conditions

Condition 24310

~~S-240~~, S-241 and 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)]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.4(a)(29), BAAQMD Regulation 9-8-~~23~~30]
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(~~de~~)(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(~~fg~~)]

S-252 Diesel Firewater Pump Engine

5. The owner/operator shall not exceed 50 hours per year for reliability-related testing.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section

IV. Permit Conditions

93115.6(b)(3)(A)(2)(b)]

6. 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)]

7. 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(d)(1)]

8. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f)]

Condition 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)]

- ~~1.2.~~ 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

IV. Permit Conditions

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)]

~~2-3.~~ 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(~~de~~)(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(~~fg~~)]

Condition # 24737

APPLICATION 22082, Alkylation Hydrogenator Guard Beds, S-1063 (Aug 2010)

1.
 - a. Deleted. (The ATC design requirements for valves were verified when the PTO was issued in September 2010).
 - b. Deleted. (The ATC design requirements for flanges were verified when the PTO was issued in September 2010).
 - c. Deleted. (The ATC design requirements for pumps were verified when the PTO was issued in September 2010).
 - d. Deleted. (Redundant with Regulation 8-18. Fugitive components associated with this application were incorporated into the facility LDAR program upon startup.)

2. The Owner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Alkylation Hydrogenator Guard Bed Project, which includes S-1063, to no more than 0.0496 tons in any rolling 365 consecutive day period. [Basis: Cumulative Increase, Offsets]

IV. Permit Conditions

IV. Permit Conditions

Condition 24754

Application 22080 (October 2010) Valero Gasoil Transfer Project, Fugitive Equipment Application 24386 (May 2012), Delete completed fugitive requirements. Update final fugitive count and emissions

1. a. Deleted. (Completed. All new hydrocarbon flow control valves installed as part of the Valero BAP Gasoil Transfer Project were equipped with live-loaded packing systems and polished stems, or equivalent).
- b. Deleted. (Completed. All new flanges/connectors installed in light hydrocarbon piping system as part of the Valero BAP Gasoil Transfer Project were equipped with graphitic gaskets unless prevented by service requirements.)
- c. Deleted. (Completed. All new light hydrocarbon centrifugal pumps installed as part of the Valero BAP Gasoil Transfer Project are of seal-less design or are equipped with dual mechanical seals, or equivalent.)
- d. Deleted. (Completed. All fugitive equipment installed as part of the Valero BAP Gasoil Transfer Project has been incorporated into the facility LDAR Program.)
2. The Owner/Operator has been permitted to install fugitive components with a total POC emission rate of 0.0096 TPY for the entire Valero BAP Gasoil Transfer Project. [Basis: Cumulative Increase, Offsets]
3. The Owner/Operator shall vent all pressure relief devices installed as part of the BAP Gasoil Transfer Project to a flare gas recovery system with a recovery and/or destruction efficiency of at least 98% by weight. [Basis: Regulation 8-28]

Condition # 25158

APPLICATION 24094/24106, NOx Box calculations (Jan 2012)

1. Effective December 15, 2010, the owner/operator of Sources S-34, S-35, S-40 and S-41 shall use zero NOx emissions (pound) and zero heat inputs (MMBtu) to determine the NOx contribution to Regulation 9-10-301 facility-wide NOx emission limit (0.033 lb/MMBtu) when the source is routinely in the temporary out of service operation (temporary shut down because of no demand). (Basis: Cumulative Increase, Regulation 9-10)
2. Effective December 15, 2010, the owner/operator of Sources S-34, S-35, S-40 and S-41 shall determine the NOx contribution using the option described in 9-10-301.4 when the source is in curtailed or startup, or shutdown operation. (Basis: Cumulative Increase, Regulation 9-10)

Condition # 25342

IV. Permit Conditions

Refinery Low Pressure Fuel Gas System

A/N 24656 Consolidation of all fuel gas system requirements (September 2012)

1. The Owner/Operator shall limit the hydrogen sulfide (H₂S) concentration in refinery fuel gas to the following:

a. For the listed source, no more than 60 ppmvd daily, on a 365-day rolling average basis. [Basis: NSPS Subpart Ja].

S1061 (F5501), Hydrogen Reformer Furnace

b. For the listed sources, no more than 162 ppmvd on a 3-hour rolling average basis. [Basis: 40CFR60.104(a)(1), Consent Decree Condition # 24545]

S7 (F103), Process Furnace, Jet Fuel Hydrofining

S20 (F104), Process Furnace, Naphtha Hydrofining

S21 (F301), Hydrogen Reformer Furnace

S22 (F351), Hydrogen Reformer Furnace

S23 (F401), Process Furnace, Gas Oil Hydrocracking

S24 (F601), Process Furnace, Cat Feed Hydrofining

S25 (F701), Process Furnace, Cat Feed Preheat

S26 (F801), Process Furnace, HCN Hydrofining

S30 (F2901), Process Furnace, PFR Preheat

S31 (F2902), Process Furnace, PFR Reheat

S32 (F2903), Process Furnace, PFR Reheat

S33 (F2904), Process Furnace, PFR Reheat

S34 (F2905), Process Furnace, Gas Heater

S35 (F2906), Process Furnace, Gas Heater

S40 (SG2301), Utility Package Boiler

S41 (SG2302), Industrial Boiler

S173 (F902), Coker Steam Superheat Furnace

S220 (F4460), Hot Oil Furnace

S237 (SG1032), Boiler

c. For the listed sources, no more than 162 ppmvd on a 3-hour rolling average basis [40CFR60.104(a)(1) for S247, S248, S1030, and S1031, NSPS Ja for S1061].

S247 (F5401), Reactor Charge Heater

S248 (F5402), Stripper Reboiler Heater

S1030 (GT4901), Turbine

S1031 (SG4901), Steam Generator

S1061 (F5501), Hydrogen Reformer Furnace

d. For the listed sources, no more than 100 ppmvd daily, on a 24-hour calendar day average basis. [Basis: Cumulative Increase, Offsets].

IV. Permit Conditions

S21 (F301), Hydrogen Reformer Furnace
S22 (F351), Hydrogen Reformer Furnace
S220 (F4460), Hot Oil Furnace
S237 (SG1032), Boiler

2. The Owner/Operator shall limit the total reduced sulfur (TRS) concentration in refinery fuel gas to the following:

a. For the listed sources, no more than 35 ppmvd daily, on a 365-day rolling average basis. [Basis: BACT].

S1030 (GT4901), Turbine
S1031 (SG4901), Steam Generator

b. For the listed sources, no more than 45 ppmvd daily, on a 365-day rolling average basis. [Basis: BACT, Cumulative Increase].

S247 (F5401), Reactor Charge Heater
S248 (F5402), Stripper Reboiler Heater
S1061 (F5501), Hydrogen Reformer Furnace

c. For the listed sources, no more than 51 ppmvd daily, on a calendar year average basis. [Basis: Offsets].

S40 (SG2301), Utility Package Boiler

d. For the listed sources, no more than 51 ppmvd daily, on a rolling four-quarter average basis. [Basis: Cumulative Increase, Offsets, BACT, and A/N 18888/S237 (for S21, S22, and S220 only)].

S21 (F301), Hydrogen Reformer Furnace
S22 (F351), Hydrogen Reformer Furnace
S220 (F4460), Hot Oil Furnace
S237 (SG1032), Boiler

e. For the listed sources, no more than 100 ppmvd daily, on a calendar day basis. [Basis: BACT].

S1061 (F5501), Hydrogen Reformer Furnace

f. For the listed sources, no more than 100 ppmvd daily, on a rolling 24-hour basis. [Basis: BACT].

S1030 (GT4901), Turbine
S1031 (SG4901), Steam Generator

g. For the listed sources, no more than 155 ppmvd daily, on a calendar day basis. [Basis: BACT].

S247 (F5401), Reactor Charge Heater

IV. Permit Conditions

S248 (F5402), Stripper Reboiler Heater

3. The Owner/Operator shall install and operate:

- a. For the listed sources, a District approved continuous gaseous fuel monitor/recorder to determine the hydrogen sulfide (H₂S) content and total reduced sulfur (TRS) content of the refinery fuel gas prior to combustion [Basis: Monitoring and Records].

S21 (F301), Hydrogen Reformer Furnace

S22 (F351), Hydrogen Reformer Furnace

S23 (F401), Process Furnace, Gas Oil Hydrocracking

S220 (F4460), Hot Oil Furnace

S237 (SG1032), Boiler

S1061 (F5501), Hydrogen Reformer Furnace

S247 (F5401), Reactor Charge Heater

S248 (F5402), Stripper Reboiler Heater

- b. For the listed sources, a District approved continuous gaseous fuel monitor/recorder to determine the hydrogen sulfide (H₂S) content and total reduced sulfur (TRS) content of the refinery fuel gas and natural gas prior to combustion (this does not include pilot gas) [Basis: Refinery fuel gas and natural gas monitoring for SO₂, BACT].

S1030 (GT4901), Turbine

S1031 (SG4901), Steam Generator

4. The Owner/Operator shall calculate and record the following:

- a. For the listed sources, 24-hour average H₂S content and TRS content of the refinery fuel gas [Basis: For S21, S22, S220: Offsets, BACT, and AN 18888/S237; for S237: Cumulative Increase; and for S40: Banked POC Credits].

S21 (F301), Hydrogen Reformer Furnace

S22 (F351), Hydrogen Reformer Furnace

S40 (SG2301), Utility Package Boiler

S220 (F4460), Hot Oil Furnace

S237 (SG1032), Boiler

- b. For the listed sources, rolling consecutive 3-hour average H₂S and TRS content of the refinery fuel gas [Basis: BACT, Offsets, Cumulative Increase].

S1030 (GT4901), Turbine

S1031 (SG4901), Steam Generator

- c. For the listed source, 24-hour average and 365-day average TRS content of the refinery fuel gas [Basis: BACT, Offsets, Cumulative Increase].

IV. Permit Conditions

S1061 (F5501), Hydrogen Reformer Furnace

- d. For the listed sources, daily average TRS content, 3-hour average H2S content and 365-day average TRS content of the refinery fuel gas [Basis: BACT, Offsets, Cumulative Increase, NSPS].

S247 (F5401), Reactor Charge Heater

S248 (F5402), Stripper Reboiler Heater

5. On a quarterly basis, the Owner/Operator shall submit a report containing the following refinery fuel gas information to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation no later than 60 days after the end of the quarter:

- a. For the listed sources, the following data shall be reported [Basis: Cumulative Increase, Offsets, BACT, and AN 18888/S237 (for S21, S22, and S220 only)]:

S21 (F301), Hydrogen Reformer Furnace

S22 (F351), Hydrogen Reformer Furnace

S220 (F4460), Hot Oil Furnace

S237 (SG1032), Boiler

- i. Daily fuel consumption,
- ii. Daily averaged H2S content,
- iii. Daily averaged TRS content,
- iv. Quarterly daily averaged H2S content,
- v. Quarterly daily averaged TRS content,
- vi. Annual averaged TRS content, previous four quarters.

- b. For the listed sources, the following data shall be reported [Basis: BACT, Offsets, Cumulative Increase]:

S1030 (GT4901), Turbine

S1031 (SG4901), Steam Generator

- i. Daily fuel consumption,
- ii. Hourly averaged H2S content (3-consecutive hours),
- iii. Hourly TRS content (24-consecutive hours),
- iv. Quarterly daily averaged H2S content,
- v. Quarterly daily averaged TRS content, and
- vi. Annual averaged TRS content, previous four quarters.

- c. For the listed source, the following data shall be reported [Basis: BACT, Offsets, Cumulative Increase, NSPS]:

S247 (F5401), Reactor Charge Heater

S248 (F5402), Stripper Reboiler Heater

S1061 (F5501), Hydrogen Reformer Furnace

IV. Permit Conditions

- i. Daily fuel consumption,
- ii. Daily averaged H2S content,
- iii. Daily average TRS content,
- iv. Quarterly daily averaged H2S content,
- v. Quarterly daily averaged TRS content, and
- vi. Annual averaged TRS content, previous four quarters.

Condition# 25417

For Source S-101 (TK-1791), Untreated Wastewater Internal floating roof Tank Application 24944 (November 2012).

1. The Owner/Operator of S-101 shall not exceed 5,004,714 barrels of untreated wastewater during any consecutive twelve-month period. (Basis: Cumulative Increase)
2. The Owner/Operator may store alternate liquids(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC emissions from S-101 does not exceed 2,354 pounds in any consecutive twelve month period;
 - b. The use of these materials does not increase toxic emissions above any risk screening trigger level of Table 2-5-1 in Regulation 2-5
(Basis: Cumulative Increase; Toxics)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of each type of liquid stored at this source on a monthly basis.
 - b. If a material other than those specified in part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month periodAll records shall be retained on-site for at least five years, from the date of entry, and made available for inspection by district staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

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 (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), semi-annual (SA), quarterly (Q), monthly (M), weekly (W), daily (D), hourly (H), on an event basis (E). The monitoring type columns indicates the monitoring used to demonstrate compliance, using the following codes: alternative monitoring plan (AMP), continuous emission monitor (CEM), continuous parametric monitor (CPMS), ground-level monitoring (GLM), No monitoring (N) with a monitoring type of not applicable (N/A) 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.

VII. Applicable Limits and Compliance Monitoring Requirement

DRAFT -- DO NOT CITE OR QUOTE -- DRAFT
Table VII – Refinery
Applicable Limits and Compliance Monitoring Requirements
REFINERY-WIDE APPLICABILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Ambient SO ₂	BAAQMD 9-1-301	Y		Ground level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hrs)	BAAQMD 9-1-501, 9-1-310.3, AND 9-1-110	C	SO ₂ GLM
Ambient H ₂ S	BAAQMD 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 63.654 63.655 (h)	P/SA	Report
		Y		Refinery MACT Periodic Report	40 CFR Part 63.654 63.655 (g)	P/SA	Report
		Y		Benzene Waste NESHAPS Annual Report	40 CFR Part 61.357(d)(2) 61.357(d)(8)	P/A	Report
Benzene in Waste	40 CFR Part 61.342(e)(2)(i)	Y		Uncontrolled and Controlled benzene <6 megagrams/year	40 CFR Part 61.357(d)(5) 61.356(b)(4)	P/A	Report Records
		Y		Benzene Waste NESHAPS Quarterly Report	40 CFR Part 61.357(d)(6) 61.357(d)(7)	P/Q	Report
Benzene in Waste	40 CFR Part 61.345(b)	Y		Visual inspection of container covers	40 CFR Part 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

VII. Applicable Limits and Compliance Monitoring Requirement

**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
VOC	BAAQMD 8-5-332	N		Tank sludge container standards; includes gap criteria	BAAQMD 8-5-332	N	None
VOC	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	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 until pressure is reduced to less than 1000 mm Hg	SIP 8-10-401 BAAQMD 8-10-501 and 8-10-502	P/E	Records of hydrocarbon concentration emissions
VOC	BAAQMD 8-10-302	N		No process vessel may be opened to atmosphere unless organic compounds have been reduced to less than 10,000 ppm (methane). A refinery vessel may exceed this limit provided total number of such vessels does not exceed 10% of total vessel population over 5-consecutive year period and total mass organic compound emissions are less than 15 lb/day.	BAAQMD 8-10-501 and 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 and records of measured hydrocarbon concentration emissions and mass emission calculations.

VII. Applicable Limits and Compliance Monitoring Requirement

**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	Condition 125, Part 5	Y		1.842 lb/hr; 8.064 tons/yr	Condition 125, Part 7	P/E	Initial Source Test
					Condition 125, Part 8	P/A	Source Test
CO	Condition 125, Part 5	Y		1.547 lb/hr; 6.774 tons/yr	Condition 125, Part 7	P/E	Initial Source Test
POC	Condition 125, Part 5	Y		0.102 lb/hr; 0.444 tons/yr	Condition 125, Part 7	P/E	Initial Source Test
PM10	Condition 125, Part 5	Y		0.140 lb/hr; 0.613 tons/yr	Condition 125, Part 7	P/E	Initial Source Test
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3, superseded by-Condition 24198, Part 3	P/M	Visual Inspection
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 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
SO ₂	Condition 125, Part 5	Y		0.011 lb/hr; 0.048 tons/yr	Condition 125, Part 7	P/E	Initial Source Test
SO ₃ , H ₂ SO ₄	BAAQMD 6-1-330	N		0.08 grain/dscf exhaust concentration of SO ₃ and/or H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	Condition 19466 Part 8, superseded by-Condition 24198, Part 8	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
SO ₃ , H ₂ SO ₄	SIP 6-330	Y		0.08 grain/dscf exhaust concentration of SO ₃ and/or H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	Condition 19466 Part 8, superseded by Condition 24198, Part 8	P/A	Source Test
H ₂ S	BAAQMD 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 60.104(a)(2)(ii) <u>and</u> <u>Condition 24245, Part 37</u>	Y		H ₂ S less than 10 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv	40 CFR Part 60.106(a); <u>and</u> <u>Condition 24245, Part 37</u> <u>125, Part 9</u>	P/E	Initial Performance Test
Reduced Sulfur (TRS)	40 CFR Part 60.104(a)(2)(ii) <u>and</u>	Y		Reduced sulfur compounds less than 300 ppmv, dry, at 0% excess air, expressed as SO ₂ ppmv, averaged over	40 CFR Part 60.105(a)(6) <u>and</u> <u>Condition</u>	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**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 24245, Part 37			12 hours	24245, Part 38		
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

**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	Condition 126, Part 5	Y		1.842 lb/hr; 8.064 tons/yr	Condition 126, Part 7	P/E	Initial Source Test
					Condition 126, Part 8	P/A	Source Test
CO	Condition 126, Part 5	Y		1.547 lb/hr; 6.774 tons/yr	Condition 126, Part 7	P/E	Initial Source Test
POC	Condition 126, Part 5	Y		0.102 lb/hr; 0.444 tons/yr	Condition 126, Part 7	P/E	Initial Source Test
PM10	Condition 126, Part 5	Y		0.140 lb/hr; 0.613 tons/yr	Condition 126, Part 7	P/E	Initial Source Test
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3, superseded by Condition 24198, Part 3	P/M	Visual Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

**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
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 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
SO ₂	Condition 126, Part 5	Y		0.011 lb/hr; 0.048 tons/yr	Condition 126, Part 7	P/E	Initial Source Test
SO ₃ , H ₂ SO ₄	BAAQMD 6-1-330	N		0.08 grain/dscf exhaust concentration of SO ₃ and/or H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	Condition 19466 Part 8, superseded by Condition 24198, Part 8	P/A	Source Test
SO ₃ , H ₂ SO ₄	SIP 6-330	Y		0.08 grain/dscf exhaust concentration of SO ₃ and/or H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	Condition 19466 Part 8, superseded by Condition 24198, Part 8	P/A	Source Test
H ₂ S	BAAQMD 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	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				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) and Condition 24245, Part 37	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) and Condition 24245, Part 37; Condition 126, Part 9	P/E	Initial Performance Test
Reduced Sulfur (TRS)	40 CFR Part 60 Subpart J 60.104(a)(2)(ii) and Condition 24245, Part 37	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) and Condition 24245, Part 38	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 Requirement

**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 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD 9-10-502.1	€	CEM
CO	Condition 20820, Part 21.b.v	Y	Upon activation of Condition 20820, Part 21.a triggers	35.2 ppm (3% O ₂), 365-day average; 214.5 tons/calendar year	Condition 20820-Part 21.b.v	€	CEM
Fuel Flow	BAAQMD Title V Permit, Table II.A	N		46.3 MM therms/year CO+RFG (S-3) 22.7 MM therms/year CO+RFG (S-4)	BAAQMD 9-10-502.2; Condition 11030 Part 7	€	Fuel Flow CPMS
NO _x	BAAQMD 9-10-303.1	Y		Federal interim emissions: CO-Boiler emissions: 300 ppm NO _x (dry, 3% O ₂), operating day average	Condition 19466 Part 14	€	CEM
NO _x	BAAQMD 9-10-304.1	N		CO-Boiler emissions: 150 ppm (dry, 3% O ₂), operating day average	BAAQMD 9-10-502.1	€	CEM
NO _x	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	Condition 19466 Part 14	€	CEM
NO _x	Condition 20820, Part 21.b.i	Y	Upon activation of Condition 20820,	77.9 ppm (3% O ₂), 365-day average; 779.9 tons/calendar year	Condition 20820-Part 21.b.i	€	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**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
			Part 21.a triggers				
O ₂		N		No limit	BAAQMD 9-10-502-1	C	CEM
SO ₂	Condition 20820, Part 21.b.ii	Y	Upon activation of Condition 20820, Part 21.a triggers	440 ppm (3% O ₂), 365-day average; 6,132 tons/calendar year	Condition 20820-Part 21.b.ii	C	CEM
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 5	C	-Exhaust through main stack which has a COM
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 5	C	-Exhaust through main stack which has a COM
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	Condition 19466-Part 5	C	Exhaust through main stack which has a COM
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	Condition 19466-Part 5	C	Exhaust through main stack which has a COM
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 22156, Part 3	C	Opacity- exceeding 30% means exceeding 6-1-310
FP	SIP	Y		0.15 grain/dscf	Condition	C	Opacity-

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	6-310				22156, Part 3		exceeding 30% means exceeding 6-1-310
FP	BAAQMD 6-1-310.3	N		0.15-grain/dscf @-6% O ₂	Condition 22156 Part 1	€	Opacity
					Condition 22156, Part 3	€	Opacity- exceeding 30% means exceeding 6-1-310
FP	SIP 6-310.3	Y		0.15-grain/dscf @-6% O ₂	Condition 22156 Part 1	€	Opacity
					Condition 22156, Part 3	€	Opacity- exceeding 30% means exceeding 6-1-310

VII. Applicable Limits and Compliance Monitoring Requirement

**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
FP ³	BAAQMD 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 19466 Part 6	A	Source Test
FP ³	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 19466 Part 6	A	Source Test
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

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 Requirement

~~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
NMOC	Condition 20820, Part 21.b.iv	Y	Upon activation of Condition 20820, Part 21.a triggers	13.41 tons/calendar year	Condition 20820 Part 21.c	P/I	Initial Source Test
					Condition 20820 Part 21.c	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
NO _x	BAAQMD 9-10-303.1	Y		Federal interim emissions: CO-Boiler emissions: 300 ppm NO_x (dry, 3% O₂), operating day average	Condition BAAQMD 9-10-502.1	€	CEM
NO _x	BAAQMD 9-10-304.1	N		CO-Boiler emissions: 150 ppm (dry, 3% O₂), operating day average	BAAQMD 9-10-502.1	€	CEM
NO _x	Condition 20820, Parts 63 and 66	Y		42.8 ppmvd @ 3% O ₂ , 365-day average (including startup, shutdown, emergency bypass, and bypass) and; 85.6 ppmvd @ 3% O ₂ , 7-day average; 150 ppmvd @ 3% O ₂ , 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)	Condition 20820, Parts 63.a and 69 Condition 20820, Part 70	C P/Initial	CEM Source test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				610.6 tons/year (including startup, shutdown, emergency bypass, and bypass) and 6,194 lbs/day, 7-day average; 10,344 lbs/day (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Part 63.c	P/A	Report for annual mass emission limits
CO	Condition 20820, Parts 63 and 68.a and b	Y		35.2 ppmvd @ 3% O₂, 365-day average; 4,402 lbs/day 100 ppmvd @ 3% O₂, calendar day average; 209.5 tons/year; 4,402 lbs/day (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Parts 63.a and 69 Condition 20820, Part 70	C P/Initial	CEM Source test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				100 ppmvd @ 3% O2, calendar-day average; 209.5 tons/year (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Part 63.c	P/A	Report for annual mass emission limits

VII. Applicable Limits and Compliance Monitoring Requirement

**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
SO ₂	Condition 20820, Parts 63 and 67	Y		21.4 ppmvd @ 3% O ₂ , 365-day average; 42.8 ppmvd @ 3% O₂; 440 ppmvd @ 3% O₂, calendar-day average 42.8 ppmvd @ 3% O₂, 7-day average; 440 ppmvd @ 3% O₂, calendar day average; 393.2 tons/year; 4,309 lbs/day, 7-day average; 22.1 tons/day (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Parts 63.a and 69 Condition 20820, Part 70	C P/Initial	CEM Source test
				393.2 tpy; 4,309 lbs/day, 7-day average; 22.1 tons/day (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Part 63.c	P/A	Report for annual mass emission limits

VII. Applicable Limits and Compliance Monitoring Requirement

**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
PM10	Condition 20820, Parts 63 and 68.c	Y		40 lbs/hr; 114.8 tons/year (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Part 70	P/Initial P/AQ	Source test Source test
					Condition 20820, Parts 63.a and 72		
NMOC	Condition 20820, Parts 63 and 68.d	Y		10 ppmvd; 14.47 tons/year (excluding startup, shutdown, emergency bypass, and bypass)	Condition 20820, Part 70	P/Initial P/AQ	Source test Source test
					Condition 20820, Part 63.c	P/A	Report for annual mass emission limits
NMOC	Condition 20820, Part 2	Y		6.0 ton/year total fugitive NMOC emissions (combined from S-1059, S-1060, S-1061, and S-1062)	Condition 20820, Part 1.e	As Required	Method 21 Portable Hydrocarbon Detector
NH3	Condition 20820, Part 63.d	Y		10 ppmv, dry @ 3 O2, 3-hour average (excluding startup, shutdown, emergency bypass, and bypass)	None Condition 20820, Part 63.e	N P/Initial	N/A Source test
SAM (includin	Condition 20820, Part	Y		7 tons/year	None Condition	N P/Initial	N/A Source test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
g SO ₂ , SO ₃ , SAM, and ammonium sulfates)	74				20820, Part 75 (Submit results within 150 days of startup date)		
Opacity	BAAQMD 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
Opacity	BAAQMD 6-1-304	N		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	None	N	N/A
Opacity	SIP 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 20820, Part 63.b (AMP submitted to EPA on October 27, 2010)	C	Opacity CPMS on FCCU/CKR Stack COMS or AMP
FP	SIP	Y		0.15 grain/dscf	Condition	C	Opacity CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	6-310				20820, Part 63.b <u>AMP submitted to EPA on October 27, 2010</u>		on FCCU/CKR Stack COMS or AMP
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	Condition 20820, Part 63.b <u>(AMP submitted to EPA on October 27, 2010)</u>	C	Opacity CPMS on FCCU/CKR Stack COMS or AMP
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	Condition 20820, Part 63.b <u>(AMP submitted to EPA on October 27, 2010)</u>	C	Opacity CPMS on FCCU/CKR Stack COMS or AMP

VII. Applicable Limits and Compliance Monitoring Requirement

**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
FP ⁴	BAAQMD 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 19466 Part 6 20820, Part 72	P/A	Source Test
FP ⁴	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	Condition 20820, Part 72 19466 Part 6	P/A	Source Test
Heat Input	Condition 20820, Part 71	y		4,634,400 MMBtu/year (S-1059) 2,268,840 MMBtu/year (S-1060)	Condition 20820, Part 64	C	Fuel Flow CPMS
A-1047 Stack Outlet Vapor Flow	Condition 20820, Part 61	y		360,000 scfm, dry @ 0% O ₂ , 365-day average (excluding startup, shutdown, emergency bypass, and bypass except during periods of operation of the plume abatement)	Condition 20820, Part 69	C	Stack flow meter

⁴ Emission limits for particulate matter apply to S-5 FCCU and S-6 Fluid Coker, but are monitored at [S-1059 and S-1060 CO Furnaces](#)~~S-3 and S-4 CO Furnaces~~

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				system)			

**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
CO	40 CFR Part 60.103(a) and Condition 24245, Part 17 24239, Part 2	Y		500 ppmvd @ 0% O2, 1-hour average	40 CFR Part 60.105(a)(2), 40 CFR Part 63.1565(b)(1) (ii) and Condition 24239 Part 7 (AMP for CO monitoring approved by EPA January 10, 2007)	N	N/A (Vent emissions to boiler with heat input ≥ 44 MW [S-1059/S-1060] N/A (Vent emissions to boiler with heat input ≥ 44 MW))
CO	40 CFR Part 63.1565(a) (1)	Y		500 ppmvd @ 0% O2, 1-hour average	EPA January 10, 2007)		
CO	Condition 24245, Part 17	Y		500 ppmvd @ 0% O2, 1-hour average	40 CFR Part 63.1565(b)(1) (iii) (AMP for CO		

VII. Applicable Limits and Compliance Monitoring Requirement

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
					monitoring approved by EPA January 10, 2007)		
Opacity	BAAQMD 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 15,	C	Opacity CPMS on FCCU/CKR Stack (AMP submitted to EPA on October 27, 2010)
Opacity	SIP 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	superseded by Condition 24198, Part 15 Condition 19466 Part 15, superseded by Condition 24198, Part 15	C	COM on Main Stack or AMP CPMS on FCCU/CKR COM on Main Stack or AMP
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes/hour	BAAQMD 6-1-501, SIP 6-501, and BAAQMD 1-520.5	C	Opacity CPMS on FCCU/CKR Stack (AMP submitted to EPA on October 27, 2010)
					Condition 24198, Part 17	C	Water Level CPMS on FCCU/CKR Dump Stack P-69 water

VII. Applicable Limits and Compliance Monitoring Requirement

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
							seal chamber
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	CPMS on FCCU/CKR (AMP submitted to EPA on October 27, 2010) COM on Main Stack or AMP
					Condition 24198, Part 17	<u>C</u>	Water Level CPMS on FCCU/CKR Dump Stack P-69 water seal chamber
Opacity	40 CFR Part 60.102(a)(2) and Condition 24245, Part 19 24239, Part 4	Y		30% opacity, except for one 6-minute average opacity in any 1-hr period	40 CFR Part 60.105(a)(1), 40 CFR Part 63.1564(b)(1) , Condition 24239, Part 7, and 24245, Part 23	C €	Opacity CPMS on FCCU/CKR Stack COMS at Main Stack or AMP CPMS on FCCU/CKR COMS 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	(AMP for CPMS submitted to EPA on October 27, 2010) alternate COMS location approved by EPA February 18, 2009) 40 CFR Part		

VII. Applicable Limits and Compliance Monitoring Requirement

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
					63.1564(b)(1), Condition 24239, Part 7 (AMP for CPMS alternate COMS location approved by EPA February 18, 2009)		
PM	40 CFR Part 60.102(a)(1) and Condition 24245, Part 18 24239, Part 3	Y		PM emissions less than 1.0 lb/1,000 lb of coke burn-off	Condition 24239, Part 6, Condition 24239, Part 7 and 24245, Part 21 (AMP for Site- Specific Test Plan, approved by EPA January 10, 2007)	P/E	Initial Performance Test
					40 CFR Part 60.105(c) and Condition 24245, Part 24	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

VII. Applicable Limits and Compliance Monitoring Requirement

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
					40 CFR Part 63.1564(c)(1)	P/D	Determine and record daily average coke burn-off rate and hours of operation
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 19466 Part 6, superseded by Condition 20820, Part 72	P/A, superseded by P/Q	Source Test
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 6-1-311	N		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
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 9-1-310.1	Y		SO ₂ emission limit for FCCUs and Fluid Cokers (1000 ppmv), Averaged over 1 hour	BAAQMD 9-1-502; BAAQMD 1-520.5	C	SO ₂ CEM

VII. Applicable Limits and Compliance Monitoring Requirement

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
SO ₂	40 CFR Part 60.104(b)(1) and Condition 24245 Part 25	Y		50 ppmv @ 0% O₂, 7-day rolling average	40 CFR Part 60.105(a)(9) and Condition 24245, Part 27 (AMP for alternate O₂ CEMS span submitted to EPA on October 25, 2012)	C	SO ₂ CEM
SO ₂	Condition 24245 Part 13	Y		25 ppmvd @ 0% O₂, 365-day rolling average and 50 ppmv @ 0% O₂, 7-day rolling average	Condition 24245, Part 14	C	SO ₂ CEM

Table VII – A5 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-6 (R-902) – FLUID COKER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A5 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-6 (R-902) – FLUID COKER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 15, superseded by Condition 24198, Part 15	C	Opacity CPMS on FCCU/CKR Stack COM or AMP
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 15, superseded by Condition 24198, Part 15	C	Opacity CPMS on FCCU/CKR Stack COM or AMP
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes/hour	BAAQMD 6-1-501 and 1-520.6	C	Opacity CPMS on FCCU/CKR Stack COM or AMP
					Condition 24198, Part 17	C	Water Level CPMS on FCCU/CKR Dump Stack P-69 water seal chamber
Opacity	SIP 6-302	Y		20% opacity for no more than 3 minutes/hour	BAAQMD 6-1-501, SIP 6-501, and BAAQMD 1-520.6	C	Opacity CPMS on FCCU/CKR Stack COM or AMP
					Condition	C	Water Level

VII. Applicable Limits and Compliance Monitoring Requirement

**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
					24198, Part 17		CPMS on FCCU/CKR Dump Stack P-69 water seal chamber
Opacity		Y		Opacity Records and Reports	BAAQMD 6-1-502, SIP 6-502, and BAAQMD 1-522.8	P/M	Records
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 19466 Part 6, superseded by Condition 20820, Part 72	P/A	Source Test
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 19466 Part 6, superseded by Condition 20820, Part 72	P/A	Source Test
FP	BAAQMD 6-1-311	N		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	Source Test
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is	Condition 19466	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				process weight rate in lb/hr	Part 9, superseded by Condition 20820, Part 72		
SO ₂	BAAQMD 9-1-310.1	Y		SO ₂ emission limits for FCCUs and fluid cokers (1000 ppmv), averaged over 1 hour	BAAQMD 9-1-502; BAAQMD 1-520.6	C	SO ₂ CEM

**Table VII – A6.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-7, S-20, ~~S-34~~, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		4.64 MM therms/year (S-7); 5.43 MM therms/year (S-20); 6.48 MM therms/year (S-34)	BAAQMD 9-10-502..2	C	Fuel Flow CPMS
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and	BAAQMD 9-10-502.1 Condition 21233 Part 7A	P/SA C (S-7 Only Upon activation of Condition 20820, Part 21.a triggers)	Source Test CEMS (S-7 Only) Alternative Compliance Plan (Emission calculations using emission

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				21233 and compliance with Condition 25158 is considered compliance with this limit)		P/D	factors and fuel meter data except as allowed in Condition 25158)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD 2-6-503	P/SA	Source Test And Alternative Compliance Plan
NO _x	Condition 20820, Part 21.b.i (For S-7 Only)	Y	Upon activation of Condition 20820, Part 21.a triggers	77.9 ppm (3% O₂), 365-day average; 779.9 tons/calendar year	Condition 20820 Part 21.b.i	C	CEM
O ₂	Condition #21233, part 5	Y		NO _x Box ranges for low, mid, and high O ₂ at low, mid, and high firing	BAAQMD 9-10-502.1 Condition 21233 Part 2, 4B and 7A	C	O ₂ CPMS
O ₂	Condition #21233, part 5 (For S-20 and S-34 Only)	Y	Upon activation of Condition 20820, Part 21.a triggers	NO_x Box ranges for low, mid, and high O₂ at low, mid, and high firing	BAAQMD 9-10-502.1 Condition 21233 Part 2, 4B and 7A	C	O₂ CPMS
CO	BAAQMD	N		400 ppmv CO (dry, 3%	Condition	P/SA	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	9-10-305			O ₂ , operating day average	19466 Part 10 (superseded by Condition 24198, Part 10) and Condition 21233 Part 7A		
CO	Condition 21233 Part 9	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	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% O ₂), 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% O ₂), 365-day average; 6,132 tons/calendar year	Condition 20820 Part 21.b.ii	C	CEM
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1) and	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	40 CFR Part 60 Subpart J 60.105(a)(4) and Condition 24245, Part	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	Condition 25342, Part 1b and Condition 24245, Part 294 40-CFR Part 60 Subpart J 60.104(a)(1)			of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	336 40-CFR Part 60 Subpart J 60.105(a)(4)		
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-1-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
					Condition 20820 Part 21-c	P/A	Source Test
					Condition 20820 Part 21-c	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A6.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-24 AND S-35 (F601 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); 1.23 MM therms/year (S-35);	BAAQMD 9-10-502.2	C	Fuel Flow CPMS
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 and compliance with Condition 25158 is considered compliance with this limit)	BAAQMD 9-10-502.1 Condition 21233 Part 7A	P/SA (S-24) P/A (S-35) P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data except as allowed in Condition 25158)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD 2-6-503	P/SA (S-24) P/A (S-35)	Source Test And Alternative Compliance Plan
O ₂	Condition #21233, part 5	Y		NOx Box ranges for low, mid, and high O2 at low, mid, and high firing	BAAQMD 9-10-502.2	C	O2 CPMS
CO	BAAQMD	N		400 ppmv CO (dry, 3%	Condition	P/SA (S-24)	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A6.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-24 AND S-35 (F601 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
	9-10-305			O ₂), operating day average	19466 Part 10 (superseded by Condition 24198, Part 10) and Condition 21233 Part 7A	P/A (S-35)	
CO	Condition 21233 Part 9 (only applicable to S-24)	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 7A	P/SA (S-24)	Source Test
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1) and Condition 24245, Part 294 and Condition 25342, Part 1b 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) and Condition 24245, Part 336 40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A6.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-24 AND S-35 (F601 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	SIP 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A

**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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour		N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	BAAQMD 2-6-503	N	None

VII. Applicable Limits and Compliance Monitoring Requirement

**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 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	BAAQMD 2-6-503	N	None

**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 9-10-502.2	C	Fuel Flow CPMS
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 is considered compliance with this limit)	BAAQMD 9-10-502.1 Condition 21233 Part 7A	P/SA P/D	Source Test Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD 2-6-503	P/SA	Source Test And Alternative Compliance Plan

VII. Applicable Limits and Compliance Monitoring Requirement

**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
O ₂	Condition #21233, part 5	Y		NOx Box ranges for low, mid, and high O ₂ at low, mid, and high firing	BAAQMD 9-10-502.2	C	CEM
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10) and Condition 21233 Part 7A	P/SA	Source Test
CO	Condition 21233 Part 9	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 7A	P/SA	Source Test
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1) and	<u>Y</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	40 CFR Part 60 Subpart J 60.105(b) (Exemption for inherently low sulfur streams)	<u>N</u>	<u>N/A</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	Condition 24245, Part 29 1nd Condition 25342, Part 1b			of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	and Condition 24245, Part 33		

**Table VII – A87.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-16 (ST-2101AG) – ACID GAS 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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD 6-1-305	N		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	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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A87.1 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-16 (ST-2101AG) – ACID GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	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 12-12-501	N		None	BAAQMD 12-12-501	C	Water seal pressure and water level CPMS
VOC, HAP		N			BAAQMD 12-11-501 & 12-11-505	C	Flow Rate
		N			BAAQMD 12-11-502.2 & 12-11-505	P/E	Composition
		N			BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD 12-11-504 & 12-11-505	C	Purge Gas Flow Rate
		N			BAAQMD 12-11-507	C	1 frame per minute image video recording

**Table VII – A87.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-18 (ST-2101) – SOUTH FLARE**

VII. Applicable Limits and Compliance Monitoring Requirement

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meters along with Visual Inspection and Records
FP	BAAQMD 6-1-305	N		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	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 6-1-310	N		0.15 grain/dscf	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 12-12-501	N		None	BAAQMD 12-12-501	C	Water seal pressure and water level CPMS
VOC, HAP		N			BAAQMD 12-11-501 & 12-11-505	C	Flow Rate

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A87.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-18 (ST-2101) – SOUTH FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		N			BAAQMD 12-11-502.2 & 12-11-505	P/E	Composition
		N			BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD 12-11-504 & 12-11-505	C	Purge Gas Flow Rate
		N			BAAQMD 12-11-507	C	1 frame per minute image video recording

**Table VII – A87.3 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-17 (ST-1701) – BUTANE FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 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 6-1-305	N		No visible emissions causing particles on adjacent property	None	N	N/A
FP	SIP 6-305	Y		No visible emissions causing particles on adjacent property	None	N	N/A
FP	BAAQMD 6-	N		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A87.3 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-17 (ST-1701) – BUTANE FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	1-310						
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – A89 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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meter along with Visual Inspection and Records
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 20806 Parts 3, 4, 5 & 6	P/E	Gas Flow Meter along with Visual Inspection and Records
FP	BAAQMD 6-1-305	N		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	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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A89 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
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	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 12-12-501	N		None	BAAQMD 12-12-501	C	Water seal pressure and water level CPMS
VOC, HAP		N			BAAQMD 12-11-501 & 12-11-505	C	Flow Rate
		N			BAAQMD 12-11-502.2 & 12-11-505	P/E	Composition
		N			BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
		N			BAAQMD 12-11-503 & 12-11-505	C	Flame Detector
		N			BAAQMD 12-11-504 & 12-11-505	C	Purge Gas Flow Rate
		N			BAAQMD 12-11-507	C	1 frame per minute image video recording

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – ~~A910~~ 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 9-10-305	Y		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
CO	Condition 21233 Part 9	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 21233 Part 8	P/SA	Source Test
CO	Condition 10574 Part 32 (superseded by Condition 24197, Part 32)	Y		28 ppmv CO (dry, 3% O ₂), 8-hour average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
Fuel Flow	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 776)	BAAQMD 9-10-502.2; Condition 10574, Part 19 (superseded by Condition 24197, Part 19)	C	Fuel Flow CPMS
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 Requirement

**Table VII – ~~A910~~ 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) and Condition 24245, Part 29 and Condition 25342, Part 1b			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) and Condition 24245, Part 33 and Condition 25342, Part 3a		
H ₂ S	Condition 25342, Part 1d 10574 Parts 13 and 17 (superseded by Condition 24197, Parts 13 and 17)	Y		100 ppmv, averaged over a 24-hr calendar day and 162 ppmv averaged over any 3-hr period	Condition 25343, Part 3a 10574 Part 15 (superseded by Condition 24197, Part 15)	C	H ₂ S analyzer on fuel gas
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 is considered	BAAQMD 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 Requirement

**Table VII – ~~A910~~ 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
				compliance with this limit)			
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	Condition 19466 Part 14 (superseded by Condition 24198, Part 14)	C	CEM and Alternative Compliance Plan
NO _x	Condition 10574 Part 31 (superseded by Condition 24197, Part 31)	Y		60 ppmv (dry, 3% O ₂), averaged over consecutive 24-hour period	Condition 10574 Part 31 (superseded by Condition 24197, Part 31)	C	CEM
O ₂		N		No limit	BAAQMD 9-10-502.1 Condition 21233 Part 2	C	CEM
Opacity	BAAQMD 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
Opacity	Condition 10574 Part 21	Y		Ringelmann No. 1 or 20% opacity for no more than 3	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – ~~A910~~ 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
	(superseded by Condition 24197, Part 21)			minutes/hour			
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
Total Reduced Sulfur	Condition 25342, Part 2d 10574 Part 14 (superseded by Condition 24197, Part 14)	Y		51 ppmv of total reduced sulfur, average over any consecutive four quarter period	Condition 25342, Part 3a 10574 Part 15 (superseded by Condition 24197, Part 15)	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A101 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
CO	Condition 21233 Part 9	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 21233 Part 8	P/SA	Source Test
Fuel Flow	Condition 14318 Part 4	Y		200 MM Btu/hr; 185 MM Btu/calendar day	BAAQMD 9-10-502.2	C	Fuel Flow CPMS
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) and Condition 24245, Part 29 and Condition 25432, Part 1b	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) and Condition 24245, Part 33 and Condition 25432, Part 3a	C	H ₂ S analyzer on fuel gas
H ₂ S	Condition 14318 Part 5	Y		Fuel gas H₂S concentration limited to 162 ppm, rolling	Condition 14318 Part 5	C	H₂S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A101 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
				<u>3-hour average</u>			
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 is considered compliance with this limit)	BAAQMD 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	<u>Condition 19466 Part 14</u> (superseded by-Condition 24198, Part 14)	C	CEM
NO _x	Condition 14318 Part 2 <u>and 2A</u>	Y		40 ppm NO _x (dry, 3% O ₂), 8-hour average, <u>excluding low firing, start-up, shutdown, and curtailed operations.</u>	Condition 14318 Part 3	C	CEM
<u>NO_x</u>	<u>Condition 14318 Part 2B</u>	<u>Y</u>		<u>68 ppm NO_x (dry, 3% O₂), 8-hour average or 8.6 lbs/hr, 8-hour average during low firing, startup, shutdown, and curtailed operations.</u>	<u>Condition 14318 Part 3</u> <u>BAAQMD 9-10-502.2</u>	<u>C</u> <u>C</u>	<u>CEM</u> <u>Fuel Flow CPMS</u>
O ₂		N			Condition	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A101 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				No limit	14318 Part 3 BAAQMD 9-10-502.1 Condition 21233 Part 2		
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A

**Table VII – A112 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	BAAQMD 9-10-502.2	C	Fuel Flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A112 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
				for S-30, S-31, S-32, S-33			
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 is considered compliance with this limit)	BAAMD 9-10-502.1	C P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	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 ;Condition 21233 Part 2	C	CEM
CO	Condition 21233 Part 9	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD	N		400 ppmv (dry, 3%	Condition	P/SA	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – A1~~12~~ 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
	9-10-305			O ₂). Operating day average	19466 Part 10 (superseded by Condition 24198, Part 10)		
H ₂ S	Condition 24245, Part 4 40 CFR Part 60 Subpart J 60.104(a) (1) <u>and</u> <u>Condition 24245, Part 29</u> <u>and</u> <u>Condition 25432, Part 1b</u>	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	Condition 24245, Part 6 40 CFR Part 60 Subpart J 60.105(a)(4) <u>and</u> <u>Condition 24245, Part 33</u>	C	H ₂ S analyzer on fuel gas
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-	N		0.15 grain/dscf @ 6%	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – A1~~12~~ 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
	1-310.3			O ₂			
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A

Table VII – A1~~23.1~~ 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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grains/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grains/dscf @ 6% O ₂	None	N	N/A

Table VII – A1~~23.2~~ Combustion
Applicable Limits and Compliance Monitoring Requirements
S-43; S-44; S-46 –TURBINES (GT-401; GT-701; GT-1031)

VII. Applicable Limits and Compliance Monitoring Requirement

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO _x	SIP 9-9-301.1	Y		55 ppmv @15% O ₂ (dry) for refinery fuel gas, average over any consecutive 3-hour period	Condition 19466 Part 11 (superseded by-Condition 24198, Part 11)	P/A	Source Test
NO_x	BAAQMD 9-9-301.1.3	N		55 ppmv @ 15% O₂ (dry) for refinery fuel gas, average over any consecutive 3-hour period	BAAQMD 9-9-504	P/A	Source Test
NO _x	BAAQMD 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 9-9-504 Condition 24198, Part 11	P/A P/A	Source Test Source Test
Opacity	BAAQMD 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 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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A134.1 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	Condition 16386 Part 1	Y		9 ppmv @15% O ₂ (dry), averaged over any consecutive 3-hour period	Condition 16386 Part 6	C	NO _x CEM
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A134.2 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 9-9-301.3	Y		9 ppmv @15% O ₂ (dry), averaged over any consecutive 3-hour period	SIP 9-9-501; Condition 16386 Part 6	C	NO _x CEM
NO _x	BAAQMD 9- 9-301.1.3	N		9 ppmv @15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD 9-9-501; Condition 16386 Part 6	C	NO _x CEM
NO _x	BAAQMD 9- 9-301.2	N	1/1/2010	9 ppmv @15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD 9-9-501; Condition 16386 Part 6	C	NO _x CEM
Opacity	BAAQMD 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 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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A145 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-40 (SG2301) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
CO	Condition 21233 Part 9	Y		Any two tests ≥200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 21233 Part 8	P/SA	Source Test
CO	Condition 9296 Part D3	Y		400 ppmv (dry, 3% O ₂), operating day average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10)	P/SA	Source Test
Fuel Flow	Condition 9296 Part D7	Y		218 MM Btu/hour	BAAQMD 9-10-502.2;	C	Fuel Flow CPMS
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD 9-10-502.2;	C	Fuel Flow CPMS
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) and	Y		Fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for	40 CFR Part 60 Subpart J 60.105(a)(4) and Condition 24245, Part 33	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A145 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
	Condition 24245, Part 29 and Condition 25432, Part 1b			gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions			
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 and compliance with Condition 25158 is considered compliance with this limit)	BAAQMD 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data except as allowed in Condition 25158)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	Condition 19466 Part 14 (superseded by Condition 24198, Part 14)	C	CEM
NO _x	Condition 9296 Part D2	Y		30 ppmv (dry, 3% O ₂) averaged over consecutive 12-month period	BAAQMD 9-10-502.1	C	CEM
O ₂		Y		No Limit	BAAQMD 9-10-502.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A145 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
					Condition 21233 Part 2		
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
Total Reduced Sulfur	Condition 25342, Part 2c 9296 Part D4	Y		51 ppmv of total reduced sulfur, annualized daily average (calendar year)	Condition 25342, Part 4a 9296 Part D6	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A156 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	Condition 21233 Part 9	Y		Any two tests ≥ 200 ppmv (dry, 3% O ₂) in a 5-year period, required installation of a CEM	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 21233 Part 8	P/SA	Source Test
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	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 9-10-502.2	C	Fuel Flow CPMS
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) and Condition 24245, Part 29 and Condition 25432, Part 1b	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) and Condition 24245, Part 33	C	H ₂ S analyzer
NO _x	BAAQMD 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb	BAAQMD 9-10-502.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A156 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 2-9-303 and Conditions 19329 and 21233 and compliance with Condition 25158 is considered compliance with this limit)		P/D	Alternative Compliance Plan (Emission calculation using emission factors and fuel meter data except as allowed in Condition 25158)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	Condition 19466 Part 14 (superseded by Condition 24198, Part 10)	C	CEM
O ₂		N		No limit	BAAQMD 9-10-502.1; Condition 21233 Part 2	C	CEM
Opacity	BAAQMD 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 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	N		0.15 grain/dscf @ 6%	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A156 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
	6-1-310.3			O ₂			
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A

**Table VII – A17 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-42 (F1060) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	BAAQMD 9-10-112	N		90,000 therms/year during each consecutive 12-month period	BAAQMD 9-10-502.2	C	Fuel Flow CPMS
H ₂ S	Condition 24245, Part 6; 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	Condition 24245, Part 6; 40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas
Opacity	BAAQMD 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

VII. Applicable Limits and Compliance Monitoring Requirement

**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
FP	BAAQMD 6-1-310	N		0.15-grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15-grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15-grain/dscf @-6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15-grain/dscf @-6% O ₂	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1618 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-173 (F902)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	9-10-502 Condition 19466 Part 10 (superseded by Condition 24198, Part 10) and Condition 21233 Part 7A	P/A	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		1.93 MM therms/year	BAAQMD 9-10-502.2	C	Fuel Flow CPMS
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) and Condition 24245, Part 29 and Condition 25432, Part 1b	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 malfunctions. Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR Part 60 Subpart J 60.105(a)(4) and Condition 24245, Part 33	C	H ₂ S analyzer on fuel gas
NO _x	BAAQMD 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO _x / MMBTU,	BAAQMD 9-10-502.1; Condition 21233 Part 7A	P/A P/D	Source Test Alternative

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1648 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
				operating day average (Compliance with the ACP pursuant to BAAQMD 2-9-303 and Conditions 19329 and 21233 is considered compliance with this limit)			Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	BAAQMD 2-6-503 Condition 21233 Part 7A	P/A	Source Test and Alternative Compliance Plan
NO _x	Condition 254 Part 1	Y		40 ppm (dry, 3% O ₂), average of 3 consecutive 30-minute test runs	Condition 254 Part 3	P/A	Source Test
O ₂		N		No limit	BAAQMD 9-10-502.1 Condition 21233 7A	P/A	Source Test
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-1-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP	Y		0.15 grain/dscf @ 6%	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1618 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
	6-310.3			O ₂			

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1719 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD 9-10-305	N		400 ppmv CO (dry, 3% O ₂), operating day average	Condition 19466 Part 10 (superseded by Condition 24198, Part 10) and Condition 21233 Part 9	C	CEM
CO	Condition 10574 Part 24 (superseded by Condition 24197, Part 24)	Y		28 ppmv (dry, 3% O ₂), 8-hour average (0.02 lb/MMBtu)	Condition 19466 Part 10 (superseded by Condition 24198 7 , Part 10) and Condition 21233 Part 9	C	CEM
Fuel Flow	Condition 10574 Part 29 (superseded by Condition 24197, Part 29)	Y		28.908 MM therms/year	BAAQMD 9-10-502.2; Condition 10574 Part 19 (superseded by Condition 24197, Part 19)	C	Fuel Flow CPMS
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) <u>and</u> <u>Condition</u>	Y		<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</u>	40 CFR Part 60 Subpart J 60.105(a)(4) <u>and</u> <u>Condition 24245, Part 33</u>	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1719 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
	24245, Part 29 and Condition 25432, Part 1b			gas burned at flares from relief valve leaks or other emergency malfunctions fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	and Condition 25432, Part 3a		
H ₂ S	Condition 25342, Part 1c 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	Condition 25342, Part 3a 10574 Part 15 (superseded by Condition 24197, Part 15)	C	H ₂ S analyzer on fuel gas
NO _x	BAAQMD 9-3-303	Y		125 ppm NO _x for gaseous fuels, average of 3 consecutive 30-minute test runs	Monitoring subsumed by BAAQMD 9-10-502 monitoring. See permit shield.	N	N/A
NO _x	BAAQMD 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 2-9-303 and Conditions 19329 and 21233 is considered	BAAQMD 9-10-502.1	C P/D	CEM Alternative Compliance Plan (Emission calculations using emission

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1719 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
				compliance with this limit)			factors and fuel meter data)
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO _x /MMBTU, operating day average	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	Condition 10574 Part 23 (superseded by Condition 24197, Part 23)	Y		10 ppmv (dry, 3% O ₂), 3-hour average (0.0118 lb/MMBtu)	BAAQMD 9-10-502.1; Condition 10574 Part 27 (superseded by Condition 24197, Part 27)	C	CEM
O ₂		N		No limit	BAAQMD 9-10-502.1; Condition 10574 Part 27 (superseded by Condition 24197, Part 27) Condition 21233 Part 2	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1719 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
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
Total reduced sulfur	Condition 25342, Part 2d 10574 Part 14 (superseded by Condition 24197, Part 14)	Y		51 ppmv, averaged over any four consecutive quarters	Condition 25342, Part 3a 10574 Part 15 (superseded by Condition 24197, Part 15)	C	H ₂ S analyzer on fuel gas

**Table VII – A1820 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	Condition	Y		50 ppmv (dry, 3% O ₂),	Condition	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1820 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
	16027 Part 13			averaged over 8 hours	16027 Part 22		
Fuel Flow	Condition 16027 Part 18	Y		25.0536 MM therms/year	Condition 16027 Part 9	C	Fuel Flow CPMS
H ₂ S	Condition 25342, Part 1d 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-hour period	Condition 25342, Part 3a 16027 Part 5	C	H ₂ S analyzer on fuel gas
H ₂ S	40 CFR Part 60 Subpart J 60.104(a)(1) and Condition 24245, Part 29 and Condition 25342, Part 1b	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 malfunctions 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) and Condition 24245, Part 33 and Condition 25432, Part 3a	C	H ₂ S analyzer on fuel gas
NO _x	40 CFR Part 60 Subpart Db 60.44b (a) (1) ; 60.44b(e)	Y		Natural gas alone or in combination with any other fuel or diesel: LHRR: 0.10 lb/MMBTU HHRR: 0.20 lb/MMBTU	40 CFR Part 60.48b(b)(1)	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A1820 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
NO _x	Condition 16027 Part 12	Y		9 ppmv (dry, 3% O ₂), averaged over 3 consecutive hours	Condition 16027 <u>Part-16</u>	C	CEM
O ₂		N		No limit	Condition 16027 Part 16	C	CEM
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
PM	Condition 16027 Part 10	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	None	N	N/A
Total Reduced Sulfur	Condition <u>25342, Part 2d</u> 16027 <u>Part 4</u>	Y		51 ppmv, averaged over any consecutive four-quarter period	Condition <u>25342, Part 3a</u> 16027 <u>Part 5</u>	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A19.121 Combustion
 Applicable Limits and Compliance Monitoring Requirements
~~S-240, S-241, S-242 (P-2401C, P-2602, P-2607B)~~ – EMERGENCY STANDBY DIESEL IC ENGINES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD 9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Hours of Operation	BAAQMD 9-8-330.2	N		<100 hours each per calendar year for reliability testing	BAAQMD 9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-1-530	M	Records
Hours of Operation	BAAQMD 9-8-330.3	N	1/1/2012	<50 hours each per calendar year for reliability testing	BAAQMD 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 93115.3(n)	N		<= 34 hours/year for reliability-related activities	CCR, Title 17, Section 93115.10(de) (1)	C	Totalizing meter for hours of operation
					CCR, Title 17, Section 93115.10(fg)	M	Records
Hours of Operation	Condition 24310, Part 1	Y		<= 34 hours/year for reliability-related activities	Condition 24310, Part 3	C	Totalizing meter for hours of operation and records
					Condition 24310, Part 4	M	Records
Opacity	BAAQMD 6-1-303.1	N		Ringelmann No. 2 for no more than 3	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A19.121 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-240, S-241, S-242 (P-2401C, P-2602, P-2607B) – 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
				minutes in any hour or equivalent opacity			
Opacity	SIP 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 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

**Table VII – A19.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-252 (P-2401C) – 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
<u>NMHC + NOx</u>	<u>40 CFR 60.4205(c)</u>	<u>Y</u>		<u>3.0 g/bhp-hr</u>	<u>40 CFR 60.4211(a)</u>	<u>C</u>	<u>Operate and maintain per mfg instructions</u>
<u>NMHC + NOx</u>	<u>CCR, Title 17, Section 93115.6(a)(3)(B)</u>	<u>N</u>		<u>Off-road CI engine or Tier 1 engine standards in 13 CCR 2423</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>CO</u>	<u>40 CFR 60.4205(c)</u>	<u>Y</u>		<u>2.6 g/bhp-hr</u>	<u>40 CFR 60.4211(a)</u>	<u>C</u>	<u>Operate and maintain per mfg instructions</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A19.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-252 (P-2401C) – 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>CO</u>	<u>CCR, Title 17, Section 93115.6(a)(3)(B)</u>	<u>N</u>		<u>Off-road CI engine or Tier 1 engine standards in 13 CCR 2423</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>PM</u>	<u>40 CFR 60.4205(c)</u>	<u>Y</u>		<u>0.15 g/bhp-hr</u>	<u>40 CFR 60.4211(a)</u>	<u>C</u>	<u>Operate and maintain per mfg instructions</u>
<u>PM</u>	<u>CCR, Title 17, Section 93115.6(a)(3)(A)(1)</u>	<u>N</u>		<u>0.15 g/bhp-hr or applicable DPM standard in 13 CCR 2423</u>	<u>None</u>	<u>N</u>	<u>NA</u>
<u>Fuel Sulfur Content</u>	<u>BAAQMD 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 180.510(b)(1)</u>	<u>Y</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 9-8-330.2</u>	<u>N</u>		<u><100 hours each per calendar year for reliability testing</u>	<u>BAAQMD 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 9-8-330.3</u>	<u>N</u>		<u><50 hours each per calendar year for reliability testing</u>	<u>BAAQMD 9-8-530</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A19.2 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-252 (P-2401C) – 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(d)(1)</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>
					<u>CCR, Title 17, Section 93115.10(f)</u>	<u>M</u>	<u>Records</u>
<u>Hours of operation</u>	<u>40 CFR Part 50 Subpart IIII 60.4211(e)</u>	<u>Y</u>		<u>< 100 hours/year for maintenance and readiness checks</u>	<u>40 CFR 60.4209(a)</u>	<u>C</u>	<u>Totalizing meter for hours of operation</u>
<u>Hours of Operation</u>	<u>Condition 24310, Part 5</u>	<u>Y</u>		<u><= 50 hours/year for reliability-related activities</u>	<u>Condition 24310, Part 7</u>	<u>C</u>	<u>Totalizing meter for hours of operation and records</u>
					<u>Condition 24310, Part 8</u>	<u>M</u>	<u>Records</u>
<u>Opacity</u>	<u>BAAQMD 6-1-303.1</u>	<u>N</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>
<u>Opacity</u>	<u>SIP 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>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A20.122.1 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 9-9-301.3	Y		9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	Condition 19177, Part 38	C	CEM
NO _x	BAAQMD 9-9-301.1.3	N		9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD 9-9-501	C	CEM
NO _x	BAAQMD 9-9-301.2	N	1/1/2010	9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD 9-9-501	C	CEM
NO _x	BAAQMD 9-9-301.3 (for natural gas and refinery fuel gas firing)	N	1/1/2010	9 ppmv @ 15% O ₂ (dry) , average over any consecutive 3-hour period	BAAQMD 9-9-501	C	CEM
Opacity	BAAQMD 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 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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A20.122-1 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
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	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	Condition 19177 Part 38	C	CEM
CO	Condition 19177 Part 19(c)	Y		< 10.692 lb/hour (any rolling 3-hour period)	Condition 19177 Part 38	C	CEM
Fuel flow	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	Condition 19177 Part 37	C	Fuel Flow CPMS
Fuel Flow	Condition 19177 Part 15	Y		Combined heat rate input of turbine and associated heat recovery steam generator <19,400 MM Btu/calendar day.	Condition 19177 Part 37	C	Fuel Flow CPMS
Fuel Flow	Condition 19177 Part 16	Y		Combined heat rate input of turbine and associated heat	Condition 19177 Part 37	C	Fuel Flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – [A20.122-1](#) 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
				recovery steam generator < 6,351,000 MM Btu/year.			
H ₂ S H₂S	40 CFR Part 60 Subpart J 60.104(a) (1) and Condition 25342, Part 1c 19177 Part 19(g)	Y 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 malfunctions Fuel gas H₂S 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) Condition 25342, Part 3b 19177 Part 35 Condition 25342, Part 5b 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	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	Condition 19177 Part 21	P/E	Initial source test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A20.122-1 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	Condition 19177 Part 18(a)(1)	Y		2.5 ppmv (dry, 15% O ₂), 1-hour average when firing natural gas exclusively	Condition 19177 Part 38	C	CEM
NO _x	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	Condition 19177 Part- 38	C	CEM
PM ₁₀	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	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					Condition 19177 Part 39	P/AP/Q, then A if low variability	Source test
POC (as CH ₄)	Condition 19177 Part 18(d) for firing natural gas exclusively and Part 19(f)	Y		< 2.0372 lb/hour (0.002515 lb/MM Btu)	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					Condition 19177 Part 39	P/AP/Q, then A if low variability	Source test
SO ₂	Condition 19177 Part 19(g)	Y		< 10.75 lb/hour (rolling 24-hour average)	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – [A20.122.1](#) 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
Sulfuric acid emissions (SAM), including SO ₃ and ammonium sulfates	Condition 19177 Part 20	Y		< 7 tons in any consecutive four quarters	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					Condition 19177 Part 40	P/Q, then A if <u>results less than 50% of limit</u> low variability	Source test
Total Reduced Sulfur	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	Condition 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	Condition 25342, Parts 2a and 2f 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)	Condition 25342, Part 3b 19177 Part 35	C	H ₂ S analyzer on fuel gas (excluding pilot gas)
					Condition 25342, Parts 4b and 5b 19177 Part 36	P/Q	Report

**Table VII – [A20.222.2](#) Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-1031 (SG-4901) –HEAT RECOVERY STEAM GENERATOR
 (COGEN PHASE I)**

VII. Applicable Limits and Compliance Monitoring Requirement

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	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	Condition 19177 Part 38	C	CEM
CO	Condition 19177- Part 19(c)	Y		< 10.692 lb/hour (any rolling 3-hour period)	Condition 19177 Part 38	C	CEM
Fuel flow	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	Condition 19177 Part 37	C	Fuel Flow CPMS
Fuel Flow	Condition 19177 Part 15	Y		Combined heat rate input of turbine and associated heat recovery steam generator < 19,400 MM Btu/calendar day.	Condition 19177 Part 37	C	Fuel Flow CPMS
Fuel Flow	Condition 19177 Part 16	Y		Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	Condition 19177 Part 37	C	Fuel Flow CPMS
H ₂ S H₂S	40 CFR Part 60 Subpart J	Y Y		Fuel gas H₂S concentration limited to 230	40 CFR Part 60 Subpart J 60.105(a)(4)	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A20.222-2 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
	60.104(a) (1) and Condition 25342, Part 1c 19177 Part 19(g)			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 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)	Condition 25342, Part 3b 19177 Part 35	C	H ₂ S analyzer on fuel gas (excluding pilot gas)
					Condition 25342, Part 5b 19177 Part 36	P/Q	Report
NH ₃	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	Condition 19177 Part 21	P/E	Initial Source Test
NO _x	BAAQMD 9-3-303	Y		125 ppm NO _x for gaseous fuels, average of 3	Monitoring subsumed by	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A20.222.2 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
				consecutive 30-minute test runs	Condition 19177 Part 38 monitoring. 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	Condition 19177 Part 18(a)(1)	Y		2.5 ppmv (dry, 15% O ₂), 1-hour average when firing natural gas exclusively	Condition 19177 Part 38	C	CEM
NO _x	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	Condition 19177 Part 38	C	CEM
Opacity	BAAQMD 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 6-1-310	N		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A20.222-2 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
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
PM ₁₀	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	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					Condition 19177 Part 39	P/AP/Q, then A if low variability	Source test
POC (as CH ₄)	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)	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					Condition 19177 Part 39	P/AP/Q, then A if low variability	Source test
SO ₂	Condition 19177 Part 19(g)	Y		< 10.75 lb/hour (rolling 24-hour average)	Condition 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM),	Condition 19177 Part 20	Y		< 7 tons in any consecutive four quarters	Condition-# 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – ~~A20.222.2~~ 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					Condition 19177 Part 40	P/Q, then A if <u>results less than 50% of limit low variability</u>	Source test
Total Reduced Sulfur	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	Condition 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	Condition 25342, Parts 2a and 2f 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)	Condition 25342, Part 3b 19177 Part 35	C	H ₂ S analyzer on fuel gas (excluding pilot gas)
					Condition 25342, Parts 4b and 5b 19177 Part 36	P/Q	Report

**Table VII – ~~A2123~~ 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 9-1-304	Y		Sulfur content of liquid fuel ≤ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2123 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
Hours of Operation	BAAQMD 9-8-330.2	N		<100 hours per calendar year for reliability testing	BAAQMD 9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-1-530	M	Records
Hours of Operation	BAAQMD 9-8-330.3	N	1/1/2012	<50 hours per calendar year for reliability testing	BAAQMD 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(de)(1)	C	Totalizing meter for hours of operation
					CCR, Title 17, Section 93115.10(fg)	M	Records
Hours of Operation	Condition 24375, Part 1	Y		<= 20 hours/year for reliability-related activities	Condition 24375, Part 3	C	Totalizing meter for hours of operation
					Condition 24375, Part 4	M	Records
Opacity	BAAQMD 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 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2123 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
				or equivalent opacity			
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – A224 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO _x	Condition 22949, Part 11	Y		17 ppmv (dry, 3% O ₂) (0.0200 lb/MMBtu), averaged over any consecutive 3 hours, or 1.14 lbs/hr, averaged over 3 consecutive hours	Condition 22949, Part 14	C	CEM
NO _x	Condition 22949, Part 8.a	Y		5.0 tons/calendar year	Condition 22949, Part 14	C	CEM
CO	Condition 22949, Part 12	Y		50 ppmv (dry, 3% O ₂), averaged over 8 hours, or 2.04 lbs/hr, averaged over 8 hours	Condition 22949, Part 14	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2224 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	Condition 22949, Part 8.a	Y		8.92 tons/calendar year	Condition 22949, Part 14	C	CEM
O ₂		N		No limit	Condition 22949, Part 14	C	CEM
TRS	Condition 25342, Part 2g , 22949, Part 3(a)	Y		155 ppmv total reduced sulfur (TRS), averaged over a calendar day	Condition 25342, Part 3a , 22949, Part 5	C	H ₂ S/TRS analyzer on fuel gas
TRS/ SO ₂	Condition 25342, Part 2b , 22949, Part 4	Y		45 ppmv total reduced sulfur (TRS), averaged over any rolling consecutive 365-day period (equivalent to 0.00610 lb SO ₂ /MMBtu fuel gas)	Condition 25342, Part 3a , 22949, Part 5	C	H ₂ S/TRS analyzer on fuel gas
SO ₂	Condition 22949, Part 8.a	Y		1.52 tons/calendar year	Condition 22949, Part 5	C	H ₂ S/TRS analyzer on fuel gas
H ₂ S	Condition 22949, Part 3(b)	Y		Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	Condition 22949, Part 5	C	H₂S/TRS analyzer on fuel gas
H ₂ S	40 CFR Part 60 Subpart J 60.104(a) (1) and Condition	Y		Fuel gas H₂S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a	40 CFR Part 60 Subpart J 60.105(a)(4) and Condition 25342, Part 3a	C	H ₂ S analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2224 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	25342, Part 1c			result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions Fuel-gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average			
POC	Condition 22949, Part 13	Y		0.0026 lbs/MMBtu or 0.15 lbs/hr	Condition 22949, Part 18	P/5 years	Source Test
POC	Condition 22949, Part 8.a	Y		0.65 tons/yr	Condition 22949, Part 8b	P/A	Calculations
PM10	Condition 22949, Part 13	Y		0.0050 lbs/MMBTU or 0.29 lbs/hr	Condition 22949, Part 18	P/5 years	Source Test
PM10	Condition 22949, Part 8.a	Y		1.25 tons/yr	Condition 22949, Part 8b	P/A	Calculations
Fuel Flow (for S-	Condition 22949,	Y		192,282 MMBTU/yr (any 365 consecutive	Condition 22949, Part 9	C	Fuel Flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – A224 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-247 (F-5401) AND S-248 (F-5402) - PROCESS HEATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
247)	Part 16			days) and ` 21.95 MMBTU/hr			
Fuel Flow (for S-248)	Condition 22949, Part 16	Y		307,476 MMBTU/yr (any 365 consecutive days) and ` 35.10 MMBTU/hr	Condition 22949, Part 9	C	Fuel Flow CPMS
Opacity	BAAQMD 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 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 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	Condition 22949, Part 19	Y		Operate the ULSD Unit only when diesel product delivered does not exceed 9,125,000 Barrels/calendar year	Condition 22949, Part 22	P/D	Records

Table VII – A2325 Combustion
Applicable Limits and Compliance Monitoring Requirements
S-251 (DG-5301) – EMERGENCY STANDBY DIESEL IC ENGINE

VII. Applicable Limits and Compliance Monitoring Requirement

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD 9-1-304	Y		Sulfur content of liquid fuel \leq 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Fuel Sulfur Content	40 CFR Part 60 Subpart IIII 60.4207(a); 40 CFR Part 80 Subpart I 80.510(a) (1)	Y		Sulfur content of diesel fuel \leq 500 ppm, maximum	None	N	N/A
Fuel Sulfur Content	40 CFR Part 60 Subpart IIII 60.4207(a); 40 CFR Part 80 Subpart I 80.510(b) (1)	Y	10/1/201 0	Sulfur content of diesel fuel \leq 15 ppm, maximum	None	N	N/A
Hours of Operation	BAAQMD 9-8-330.2	N		<100 hours per calendar year for reliability testing	BAAQMD 9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-1-530	M	Records
Hours of Operation	BAAQMD 9-8-330.3	N	1/1/2012	<50 hours per calendar year for reliability testing	BAAQMD 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)(2)(b)	N		\leq 50 hours/year for reliability-related activities	CCR, Title 17, Section 93115.10(de) (1)	C	Totalizing meter for hours of operation

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2325 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-251 (DG-5301) – 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
					CCR, Title 17, Section 93115.10(fg)	M	Records
Hours of Operation	40 CFR Part 60 Subpart IIII 60.4211(e)	Y		<= 100 hours/year for reliability-related activities	40 CFR Part 60 Subpart IIII 60.4209(a)	C	Totalizing meter for hours of operation
Hours of Operation	Condition 24309, Part 1	Y		<= 50 hours/year for reliability-related activities	Condition 24309, Part 3	C	Totalizing meter for hours of operation and records
					Condition 24309, Part 4	M	Records
NMHC-NOx	40 CFR Part 60 Subpart IIII 60.4202(a) (2); 40 CFR Part 89 Subpart B 89.112)(a)	Y		4.0 g/kW-hr	None	N	N/A
CO	40 CFR Part 60 Subpart IIII 60.4202(a) (2); 40 CFR Part 89 Subpart B 89.112)(a)	Y		3.5 g/kW-hr	None	N	N/A
PM	40 CFR Part 60 Subpart	Y		0.20 g/kW-hr	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2325 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 S-251 (DG-5301) – 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
	IIII 60.4202(a) (2); 40 CFR Part 89 Subpart B 89.112)(a)						
Opacity	BAAQMD 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 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 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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2426 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 Hydrogen Reformer Furnace
 S-1061 (F-5501)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
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 25432 Part 2e 20820, Part 3	Y		100 ppmvd, calendar-day average	Condition 25432 Part 3a 20820, Parts 5 and 16	C	H ₂ S/TRS analyzer on fuel gas
TRS	Condition 25432 Part 2b	Y		45 ppmv TRS, averaged over any	Condition 25432 Part 3a	C	H ₂ S/TRS analyzer on

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2426 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 Hydrogen Reformer Furnace
 S-1061 (F-5501)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	20820, Part 4			rolling consecutive 365-day period	20820, Parts 5 and 16		fuel gas
SO ₂	Condition 20820, Part 8	Y		28.0 tons/calendar year	Condition 20820, Parts 8a and Condition 25432, Part 3a 16	C	H ₂ S/TRS analyzer on fuel gas
H₂S	Condition 25432, Part 1a	Y		Fuel gas H₂S concentration limited to 60 ppmv), daily on a rolling 365-day basis	Condition 25432, Part 3a	C	H₂S/TRS analyzer on fuel gas
H ₂ S	Condition 25432, Part 1c 20820, Part 3	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 malfunctions Fuel gas H₂S concentration limited to 162 ppmv), rolling 3-hour average	Condition 25432, Part 3a 20820, Parts 5 and 16	C	H ₂ S/TRS analyzer on fuel gas

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2426 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 Hydrogen Reformer Furnace
 S-1061 (F-5501)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
SAM (including SO ₂ , SO ₃ , SAM, and ammonium sulfates)	Condition 20820, Part 74	Y		7 tons/year	Condition 20820, Part 75 (Submit results within 150 days of startup date)	P/Initial	Source test
NMOC	Condition 20820, Part 12	Y		0.0023 lbs/MMBtu, averaged over 3 hours	Condition 20820, Parts 13 and 19	P/A	Source Test
					Condition 20820, Part 17	P/Initial	Source Test
NMOC	Condition 20820, Part 8	Y		9,9 tons/yr	Condition 20820, Parts 8a and 13	P/A	Source Test
NMOC	Condition 20820, Part 2	Y		6.0 ton/year total fugitive NMOC emissions (combined from S-1059, S-1060, S-1061, and S-1062)	Condition 20820, Part 1.e	As Required	Method 21 Portable Hydrocarbon Detector
PM10	Condition 20820, Part 12	Y		0.0025 lbs/MMBtu, averaged over 3 hours	Condition 20820, Parts 13 and 19	P/A	Source Test
					Condition 20820, Part 17	P/Initial	Source Test
PM10	Condition 20820, Part 8	Y		10.7 tons/yr	Condition 20820, Parts 8a and	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – A2426 Combustion
 Applicable Limits and Compliance Monitoring Requirements
 Hydrogen Reformer Furnace
 S-1061 (F-5501)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					13		
NH ₃	Condition 20820, Part 14	Y		10 ppmvd @ 3% O ₂ , averaged over 3 hours	Condition 20820, Part 15	P/Initial	Source Test
Heat Input	Condition 20820, Part 18	Y		8,584,800 MMBtu/365-day period and 980 MMBtu/hr	Condition 20820, Part 9	C	Fuel Flow CPMS
Opacity	BAAQMD 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 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 6-1-310.3	N		0.15 grains/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	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**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-	N		Ringelmann No. 1 for no	Condition	P/M	Visible

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B1 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-8 (TK-1902 A/B) – COKE STORAGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	1-301			more than 3 minutes/hour	19466 Part 3 (superseded by Condition 24198, Part 2)		Inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3 (superseded by Condition 24198, Part 2)	P/M	Visible Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 19466 Part 7 (superseded by Condition 24198, Part 7)	P/A	Source Test
FP	SIP 6-1-310	Y		0.15 grain/dscf	Condition 19466 Part 7 (superseded by Condition 24198, Part 7)	P/A	Source Test
FP	BAAQMD 6-1-311	N		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	Condition 19466 Part 9 (superseded by Condition 20820, Part 72)	P/A	Source Test
FP	SIP 6-311	Y		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	Condition 19466 Part 9 (superseded by Condition 20820, Part	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B1 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-8 (TK-1902 A/B) – COKE STORAGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					72)		

**Table VII – B2 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-11 (TK-2061) - ACTIVATED CARBON BIN**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3 (superseded by Condition 24198, Part 3)	P/M	Visible Inspection
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	Visible Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
Thruput	Condition 9897	Y		Annual throughput limit of 292 tons activated carbon	Condition 9897	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	Part 1				Part 2		

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B3 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-174, S-175 (TK-2321, TK-2322) - LIME SLURRY TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
FP	BAAQMD 6-1-311	N		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection
FP	SIP 6-311	Y		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	Condition 639, Part 2	P/A during lime unloading operation	Visible Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B4 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-176 (TK-2325) - BRINE SATURATOR TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3 (superseded by Condition 24198, Part 3)	P/E when dry salt is added to the tank	Visible Inspection
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/E when dry salt is added to the tank	Visible Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	Condition 19466 Part 7 (superseded by Condition 24198, Part 7)	P/E when dry salt is added to tank	Source Test
FP	SIP 6-310	Y		0.15 grain/dscf	Condition 19466 Part 7 (superseded by Condition 24198, Part 7)	P/E when dry salt is added to tank	Source Test
FP	BAAQMD 6-1-311	N		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
FP	SIP 6-311	Y		4.10 P0.67 lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B5 Material Handling
 Applicable Limits and Compliance Monitoring Requirements
 S-209 (LD-209) – 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
Ethanol Deliveries	Condition 9296 Part B4	Y		6,620 trucks per rolling 12-month period	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 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 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
FP	SIP 6-311	Y		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
Throughput	Condition 12727 Part 1	Y		Annual throughput limit of 7,300 tons ESP fines	Condition 12727 Part 5	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirement

~~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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	Condition 19466 Part 3 (superseded by Condition 24198, Part 3)	P/M	Visible Inspection
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	Visible Inspection
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311	N		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
FP	SIP 6-311	Y		$4.10 P^{0.67}$ lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Throughput	Condition 12727 Part 2	Y		Annual throughput limit of 7,300 tons ESP fines	Condition 12727 Part 5	P/M	Record

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B678 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	Condition 17835 Part 1	Y		Throughput less than 22,500 barrels per day, quarterly average	Condition 17835 Part 3	P/Q	Record
Throughput	Condition 17835 Part 2	Y		Throughput less than 8.2125 million barrels in any consecutive 4-quarter period	Condition 17835 Part 3	P/Q	Record

**Table VII – B789.1 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 8-2-301	C	Continuous HC Analyzer

**Table VII – B798.2 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	BAAQMD 8-2-301	C	Continuous HC Analyzer
NESHAPS FF	40 CFR Part 61, Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS (A-38); CARBON CANISTERS (A-37) and THERMAL OXIDIZER (A-57) on S-131						

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – B798.2 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	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 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	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				minutes/hour			
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A
CO	Condition 23326, Part 1	Y		22 tons/yr	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
Throughput	Condition 20820, Part 44	Y		480 short tons per day, daily maximum	Condition 20820, Part 45	P/D	Records
Opacity	BAAQMD 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 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

VII. Applicable Limits and Compliance Monitoring Requirement

**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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to S-36 Boiler - Condition 19466 Part 12, superseded by-Condition 24198, Part 12)	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to S-36 Boiler - Condition 19466 Part 12, superseded by-Condition 24198, Part 12)	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N (Vented to S-36 Boiler - Condition 19466 Part 12, superseded by-Condition 24198, Part 12)	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N (Vented to	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**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
						S-36 Boiler - Condition 19466 Part 12, superseded by Condition 24198, Part 12)	
VOC	BAAQMD 8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	None	N (Vented to S-36 Boiler - Condition 19466 Part 12, superseded by Condition 24198, Part 12)	N/A

**Table VII – C4.1 Miscellaneous
 Applicable Limits and Compliance Monitoring Requirements
 S-160 (C-1031) - SEAL OIL SPARGER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to flare gas stream - Condition 19466 Part 2d,	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**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
						superseded by Condition 24198, Part 2d)	
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N (Vented to flare gas stream - Condition 19466 Part 2d, superseded by Condition 24198, Part 2d)	N/A
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

VII. Applicable Limits and Compliance Monitoring Requirement

**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
VOC	BAAQMD 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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to flare gas stream - Condition 19466 Part 13, superseded by Condition 24198, Part	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**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)	
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to flare gas stream - Condition 19466 Part 13, superseded by Condition 24198, Part 13)	N/A
FP	BAAQMD 6-1-310	N		0.15 grain/dscf	None	N (Vented to flare gas stream - Condition 19466 Part 13, superseded by Condition 24198, Part 13)	N/A
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	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

**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
VOC	BAAQMD 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	13) N (Vented to fuel gas stream - 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 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-1-310	N		0.15 grain per dscf	None	N	None
FP	SIP 6-310	Y		0.15 grain per dscf	None	N	None
FP	BAAQMD 6-1-311	N		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				particulate, where P is process weight rate in ton/hr			
Hex Cr	BAAQMD 11-10-302.2	Y		0.15 mg/liter of circulating cooling water	BAAQMD 11-10-503.2	N	N/A
VOC leak	<u>40 CFR 63.654(c)(2)</u>	<u>Y</u>	<u>10/29/2012</u>	<u>Total strippable VOC (as CH4) <6.2 ppmv</u>	<u>40 CFR 63.654(c)(1)</u>	<u>P/M</u>	<u>Sample analysis</u>

**Table VII – 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 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A
Throughput	Condition 18422 Part 1	Y		Total liquid throughput shall not exceed 360,000 gallons during any consecutive 12-month period (Cumulative Increase)	Condition 18422 Part 3	P/M	Record

**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
Throughput	Condition	Y		Total throughput of	Condition	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirement

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
	18794, Part 1a (superseded by Condition 20820, Part 55)			Naphtha shall not exceed 12,739 KB/Year (34.9 KB/D annual average)	18794, Part 2b (superseded by Condition 20820, Part 56)		
Throughput	Condition 20820, Part 55	Y	Upon activation of Condition 20820, Part 21.a triggers	Total throughput shall not exceed 14.5 MMBBL/Year	Condition 20820, Part 56	P/M	Records
Throughput	Condition 18794, Part 1b (superseded by Condition 20820, Part 55)	Y		Total throughput of Naphtha shall not exceed 39.8 KB/Day (maximum)	Condition 18794, Part 2a (superseded by Condition 20820, Part 56)	P/M	Records
Throughput	Condition 20820, Part 55	Y	Upon activation of Condition 20820, Part 21.a triggers	Total throughput shall not exceed 39.8 KB/Day (maximum)	Condition 20820, Part 56	P/M	Records
HCl	MACT Subpart UUU 63.1567(a)(1)	Y		HCl emissions of 10 ppmv dry at 3%O ₂	MACT Subpart UUU 63.1567(b)(2)	P/E	Performance test
pH	40 CFR Part 63.1567(a)(2)	Y		Daily average pH of water exiting wet scrubber greater than limit established during performance test	40 CFR Part 63.1567(b)(1)	C	CPMS of pH of water exiting wet scrubber
L/G Ratio	40 CFR Part 63.1567(a)(2)	Y		Daily average L/G ratio	40 CFR Part 63.1567(b)(1)	C	CPMS of liquid

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				greater than limit established during performance test			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
Throughput	Condition 815, Part 1 (superseded by Condition 20820, Part 50)			<=135,000 barrels per day (any single day) crude feed	Condition 815, Part 2	P/D	Records
					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

**Table VII – D3
 Applicable Limits and Compliance Monitoring Requirements
 S-1007 ALKYLATION UNIT**

VII. Applicable Limits and Compliance Monitoring Requirement

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition 10574, Part 51 (superseded by Condition 24197, Part 51)	Y		<=22,800 barrels per day of alkylate throughput	None	N/A	None
POC	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	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 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector

**Table VII – D4
 Applicable Limits and Compliance Monitoring Requirements
 S-1010 HYDROGEN PLANT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition 15512,	Y		Route POC from deaerator vents associated with	Condition 15512, Part 1	N/A	None

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – D4
 Applicable Limits and Compliance Monitoring Requirements
 S-1010 HYDROGEN PLANT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Part 1			S-1010 downstream to S-40 and/or S-41 boilers			
POC	BAAQMD 8-2-301, Condition 15512, Part 2	Y		When routing POC from deaerator vents associated with S-1010 to atmosphere, < 300 ppm POC and <15 lb/day total carbon, dry basis, combined for North and South vents	Condition 15512, Part 1	P/A P/Q, then P/A upon BAAQMD approval	Source Test Source Test
Throughput	Condition 20820, Part 57	Y		190 MMSCF/day, daily maximum and 69,350 MMSCF/year	Condition 20820, Part 58	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirement

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
POC	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 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector
Throughput	Condition 20820, Part 59			7 kBBL/day, daily maximum and 2.555 MMBBL/year	Condition 20820, Part 60	P/D	Records

Table VII – D6
Applicable Limits and Compliance Monitoring Requirements
S-1014 CAT LIGHT ENDS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Condition 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>No Monitoring Requirements</u>							

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
Throughput	Condition 9296,	Y		<= 24,000 barrels per day, calendar year average	Condition 9296,	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirement

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
	Part E1				Part E2		

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
POC	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 8, Rule 18	As Required	Method 21 Portable Hydrocarbon Detector
<u>No Monitoring Requirements</u>							

Table VII – D9
Applicable Limits and Compliance Monitoring Requirements
S-1058 VIRGIN LIGHT ENDS

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
<u>No Monitoring Requirements</u>							

Table VII – D109
Applicable Limits and Compliance Monitoring Requirements
ULSD UNIT
S-1036 STRIPPER TOWER (T-5401) AND
S-1051, S-1052 REACTORS (R-5401, R-5402)

VII. Applicable Limits and Compliance Monitoring Requirement

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Thruput	Condition 22949, Part 19	Y		Operate the ULSD Unit only when diesel product delivered does not exceed 9,125,000 Barrels/calendar year	Condition 22949, Part 22	P/D	Records
Thruput	Condition 22949, Part 20 (S-1036 Only)	Y		Daily average throughput of 25 kbbl,	Condition 22949, Part 22	P/D	Record
Thruput	Condition 22949, Part 21 (S-1051, S-1052 Only)	Y		Daily average throughput of 25 kbbl,	Condition 22949, Part 22	P/D	Record

Table VII – ~~D10D11~~
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)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition 20820, Part 36 (S-1034, S-1035 Only)	Y		100 kBBL/day, daily average	Condition 20820, Part 38	P/D	Records
Throughput	Condition 20820, Part 39 (S-1049, S-1050 Only)	Y		100 kBBL/day, daily average	Condition 20820, Part 41	P/D	Records
Throughput	Condition 24080, Part 3	Y		5 kBBL/day, daily average and 1.825 MMBBL/year	Condition 24080, Part 4	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – D10D11
 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)**

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-1034 only)</u>			<u>IC4 production rate</u>	<u>(S-1034 only)</u>		

**Table VII – D11D12
 Applicable Limits and Compliance Monitoring Requirements
 S-1003 Hydrocracker Unit,
 Including S-51, S-52 HCU Total Feed Sandfilters (FIL 410A, 410B)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition 20820, Part 53	Y	Upon startup of FCCU/CKR Scrubber, A-1047	44 kBBL/day, daily maximum and 40 kBBL/day, annual average	Condition 20820, Part 54	P/D	Records

**Table VII – D12D13
 Applicable Limits and Compliance Monitoring Requirements
 S-1062 HYDROGEN UNIT WITH PSA**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMOC	<u>Condition 20820, Part 2</u>	<u>Y</u>		<u>6.0 ton/year total fugitive NMOC 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>
Throughput	Condition	Y		190 MMSCF/day, daily	Condition	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – D12D13
 Applicable Limits and Compliance Monitoring Requirements
 S-1062 HYDROGEN UNIT WITH PSA**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	20820, Part 57			maximum and 69,350 MMSCF/year	20820, Part 58		

**Table VII – D14
Applicable Limits and Compliance Monitoring Requirements
S-1011 Heavy Cat Naphtha Hydrofiner**

<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>
No Monitoring Requirements							

**Table VII – D15
Applicable Limits and Compliance Monitoring Requirements
S-1063 ALKYLATION HYDROGENTOR GUARD BEDS**

<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>
No 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
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VII. Applicable Limits and Compliance Monitoring Requirement

**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
Vapor Pressure	8-5-117 SIP 8-5-117 Condition 20762, Part 1	Y		True vapor pressure no greater than 0.5 psia.	Condition 20762, Parts 1 & 3	P/E upon change of service	Look up table or sample analysis; Records

VII. Applicable Limits and Compliance Monitoring Requirement

**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 8-7-313.1	Y		Fugitives \leq 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD 8-7-313.2	Y		Spillage \leq 0.42 lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD 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 8-7-503	P/M	Records
VOC	SIP 8-7-301.2	Y		95% recovery of gasoline vapors		N	
VOC	BAAQMD 8-7-301.10	Y		98% recovery of gasoline vapors		N	Use of CARB-certified Vapor Recovery System
VOC	BAAQMD 8-7-301.6 8-7-302.5	Y		Leak free and vapor tight fugitive components	BAAQMD 8-7-301.13	A	Vapor Tightness Test
VOC	BAAQMD 8-7-302.14	Y		None	BAAQMD 8-7-302.14	A	Backpressure Test
VOC	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 8-7-503.2 and 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)

VII. Applicable Limits and Compliance Monitoring Requirement

**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
POC	Cond #24298 Part. 4	Y		Liquid Removal Test per CARB E.O. VR-203, Exhibit 5, Option 1	CARB E.O VR-203	P/A	Annual Liquid Removal Test
POC	Cond #24298 Part. 4	Y		Vapor Pressure Sensor Verification Test per E.O. VR-203, Exhibit 8,	CARB E.O VR-203	P/A	Annual Vapor Pressure Sensor Verification
POC	Cond #24298 Part. 4	Y		Veeder-Root Vapor Polisher Operability Test. E.O. VR-203, Exhibit 11	CARB E.O VR-203	P/A	Annual Vapor Pressure Operability Test
POC	Cond #24298 Part. 4	Y		Veeder-Root Vapor Polisher Emissions Test - E.O. VR-203, Exhibit 12	CARB E.O VR-203	P/A	Annual Vapor Polisher Emissions Test
POC	Cond #20666 Part. 2	Y		Drop Tube Test per CARB TP 201.1C or 201.1D	CARB E.O. 102	P/3A	Triennial drop tube test
POC	Cond #20666 Part. 2	Y		Drop Tube Test per CARB TP 201.1C or 201.1D	CARB E.O. 102	P/3A	Triennial drop tube test
Gasoline Through put	Condition 22323, <u>Part 1</u>	NY		111,000 92,000 gallons gasoline per 12-month period	BAAQMD 8-7-503.1	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirement

**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	Condition 1709 Part-10			<5% leakage rate for vessels loaded more than 2 times/year	Condition 1709 Part-9	every 36 months for each vessel loaded more than 2 times/year	Every dock pressure test
Leak Test	Condition 1709 Part-12			10,000 ppm leak test on above-deck equipment for vessels loaded more than 2 times/year	Condition 1709 Part-12	every 10th load for each vessel loaded more than 2 times/year	On board Method 21 inspection
Loading Pressure	Condition 1709 Part-8			Vessel loading pressure <80% of lowest relief valve set pressure	Condition 1709 Part-6		Pressure CPMS
VOC	SIP 8-44-301.1; Condition 1709 Part-3	Y		POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	Condition 1709 Part-5	C	VOC CPMS
VOC	SIP 8-44.301.2; Condition 1709 Part-3	Y		Controlled ≥ 95% weight	Condition 1709 Part-5	C	VOC CPMS
VOC	BAAQMD 8-44-304.1	N		POC emissions < 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or controlled > 95% weight	Condition 1709 Part-5	C	VOC CPMS
VOC	Condition	Y		Annual mass limit for	Condition	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	1709 Part-1a			Mogas loading (43.4 tons/yr excluding shore-side fugitive emissions)	1709 Part-7		
NOx	Condition 20820, Part 23	Y		136.12 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
NOx	Condition 20820, Part 24	Y		169.07 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
SOx	Condition 20820, Part 23	Y		49.06 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
SOx	Condition 20820, Part 24	Y		64.82 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
NMOC	Condition 20820, Part 23	Y		10.56 tons/year 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 Requirement

**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			
NMOC	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 and exports of	Condition 20820, Part 26	P/A	Report

VII. Applicable Limits and Compliance Monitoring Requirement

**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
				product coke			
Throughput	Condition 1709, Part 2	Y		9.39 million barrels of gasoline loaded during any consecutive 12-month period	Condition 1709 Part 7	P/Q	Report

**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 61.355(k)(1) 61.356(b)(4)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD 8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

**Table VII – H1.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-156 (WWT-2000) – WASTEWATER RETENTION PONDS**

VII. Applicable Limits and Compliance Monitoring Requirement

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 61.355(k)(1) 61.356(b)(4)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD 8-8-601 & SIP 8-8-601	P/E	MOP, Volume III, Lab Method 33

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H2.1 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B. BIOX-2001, TK-2083) BIOTREATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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 – 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						

VII. Applicable Limits and Compliance Monitoring Requirement

**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		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		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		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		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		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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H3 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-161 (SEW-2001) – SEWER PIPELINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components; not vapor tight on regular semi-annual inspection	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/ Reinspect within 30 days of discovery and every 30 days until controlled or returned to semi-annual inspection schedule	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-312 8-8-313.2 8-8-402.1	N		Wastewater Inspection and Maintenance Plan Records	BAAQMD 8-8-505	P/E Each inspection and repair	Records
Benzene in Waste	40 CFR Part 61.342 (e)(2)(i)	Y		Uncontrolled 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-	Y		Combined collection/destruction efficiency of 95% by weight.	None	N	No monitoring – vented to fuel gas recovery

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	302.3						system
VOC	BAAQMD Regulation 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD Regulation 8-8-302.6 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	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 Part 61.347(a)(1)(i)(A)	Y		No detectable emissions (<500 ppm)	40 CFR Part 61.347(a)(1)(i)(A)	P/A	EPA 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 per 61.340(d). Emissions routed to fuel gas system.						

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD and SIP Regulation 8-8	Organic Compounds – Wastewater Collection and Separation Systems LIMITS AND MONITORING						
VOC (A-57)	BAAQMD 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	Condition 11879 Part 6 & 7	C	Temperature CPMS
VOC (A-37)	BAAQMD 8-8-302.3 & SIP 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	Condition 11879 Part 8 & 11	C	VOC CPMS and Flow CPMS
VOC	BAAQMD 8-8-302.6	N		Vapor tight covers, access doors, and other openings (<500 ppm)	BAAQMD 8-8-302.6 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
NESHAPS FF	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 63.647(a) 61.347(a) (1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR Part 63.647(a) 61.347(b)	P/Q	Visual Inspection
VOC	40 CFR Part	Y		CVS leak tightness	40 CFR Part	P/A	Method 21

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	63.647(a) 61.349(a)(1)(i)			standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)		portable hydrocarbon detector
VOC	40 CFR Part 63.647(a) 61.349(a)(1)(ii)(B)	Y		Bypass valves closed and car-sealed	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		No visible openings on CVS and control device	40 CFR Part 63.647(a) 61.349(f)	P/Q	Visual inspection
VOC (A-37)	40 CFR Part 63.647(a) 61.349(a)(2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR Part 63.647(a) 61.354(d)	P/D	VOC CPMS
VOC (A-57)	40 CFR Part 63.647(a) 61.349(a)(2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR Part 63.647(a) 61.354(c)(1)	C	Temperature CPMS
BAAQMD Permit	PERMIT CONDITIONS						
CO (A57 and A-68)	Condition 11879 Part 4	Y		50-350 ppm (3 15% O ₂ , dry)	Condition 11879 Part 6 & 7	C	Temperature CPMS
<u>Firing Rate (A-68)</u>	<u>Condition 11879, Part 14</u>	<u>Y</u>		<u>Propane firing limit < 95,738 gallons in consecutive 12 month period</u>	<u>Condition 11879, Part 17</u>	<u>P/M</u>	<u>Records</u>
NMHC Limit	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-37 and A-57 and A-68) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over the month	BAAQMD Condition 11879 Part 13	P/M/D	Records
					(A-37) Condition 11879 Parts 8 & 11	C	VOC CPMS and Flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type								
					(A-57 and A-68) Condition 11879 Parts 6, 7 & 12 & 7	C	Temperature CPMS								
					(A-57 and A-68) Condition 11879 Parts 12	P/Initial	Source Test								
NOx (A-57 and A-68)	Condition 11879 Part 3	Y		25-50 ppm (3 15% O ₂ , dry)	Condition 11879 Part 6 & 7	C	Temperature CPMS								
Outlet Temperature (A-57) Temperature Limit (A-57 and A-68)	Condition 11879 Part 6	Y		Thermal Oxidizer: 1400 F minimum outlet temperature averaged over 3 consecutive hours except during allowable temperature excursion	Condition 11879 Parts 6 & 7	C	Temperature CPMS								
					<u>Condition 11879 Part 17</u>	<u>P/M</u>	<u>Records</u>								
<u>Temp Excursion (A-57 and A-68)</u>	<u>Condition 11879, Parts 15</u>	<u>Y</u>		<u>1400 F minimum outlet temperature except during allowable temperature excursion</u>	<u>Condition 11879 Part 16</u>	<u>P/E</u>	<u>Records</u>								
VOC (A-57 and A-68)	Condition 11879 Part 5	Y		VOC destruction efficiency of 98.5 weight%: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Inlet VOC (ppmv)</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>>2000</td> <td>3.5</td> </tr> <tr> <td>>200 to < 2000</td> <td>27</td> </tr> <tr> <td><200</td> <td>90</td> </tr> </tbody> </table>	Inlet VOC (ppmv)	%	>2000	3.5	>200 to < 2000	27	<200	90	Condition 11879 Parts 6 & 7	C	Temperature CPMS
Inlet VOC (ppmv)	%														
>2000	3.5														
>200 to < 2000	27														
<200	90														
VOC	Condition	Y		Vapors vented to A-37	Condition	C	Flow CPMS								

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H4.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-194, S-195 (2006, 2056) – CPS UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	11879 Part 9			carbon canisters and/or A-57 <u>and/or A-68 thermal oxidizers</u>	11879 Part 9		
Waste Water Flow	Condition 11879 Part 2	Y		3000 gpm <u>combined total influent for S-194, S-195, S-197, S-198</u>	BAAQMD 2-6-409.2.2 <u>Condition 11879 Part 2</u>	None	Wastewater flow CPMS Records
<u>VOC or Benzene</u>	<u>Condition 11879 Part 18</u>	<u>Y</u>		<u><100 ppm-VOC or <5 ppm benzene</u>	<u>Condition 11879 Part 18</u>	<u>None</u>	<u>Records</u>
<u>VOC (A37)</u>	<u>Condition 24245 Part 47</u>	<u>Y</u>		<u>< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)</u>	<u>Condition 24245 Part 48</u>	<u>P/D</u>	<u>Carbon with VOC CPMS</u>
<u>NMHC</u>		<u>Y</u>		<u>Record of NMHC emissions and carbon changeouts</u>	<u>Condition 11880 Part 4</u>	<u>P/M</u>	<u>Record</u>

**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	N	Method 21 portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirement

**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
					8-8-603 SIP 8-8-603		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 Part 61.347(a)(1)(i)(A)	Y		No detectable emissions (<500 ppm)	40 CFR Part 61.347(a)(1)(i)(A)	P/A	EPA 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 per 61.340(d). Emissions routed to fuel gas system.						

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD and SIP Regulation 8-8	Organic Compounds – Wastewater Collection and Separation Systems LIMITS AND MONITORING						
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices.	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC (A-57)	BAAQMD 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight.	Condition 11879 Parts 6 & 7	C	Temperature CPMS
VOC (A-37)	BAAQMD 8-8-307.2 & SIP 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight.	Condition 11879 Parts	C	VOC CPMS and Flow CPMS
NESHAPS FF	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 63.647(a) 61.347(a)(1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR Part 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 63.647(a)	Y		Bypass valves closed and car-sealed	40 CFR Part 63.647(a)	P/M	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	61.349(a) (1)(ii)(B)				61.354(f)(1)		
VOC (A-57)	40 CFR Part 63.647(a) 61.349(a) (2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR Part 63.647(a) 61.354(c)(1)	C	Temperature CPMS
VOC (A-37)	40 CFR Part 63.647(a) 61.349(a) (2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR Part 63.647(a) 61.354(d)	P/D	VOC CPMS
VOC	40 CFR Part 63.647(a) 61.349(f)	Y		No visible openings on CVS and control device	40 CFR Part 63.647(a) 61.349(f)	P/Q	Visual inspection
BAAQMD Permit	PERMIT CONDITIONS						
CO <u>(A-57 and A-68)</u>	BAAQMD Condition 11879 Part 4	Y		50-350 ppm (3-15 % O ₂ , dry)	BAAQMD Condition # 11879 Parts 6 & 7	C	Temperature CPMS
<u>Firing Rate (A-68)</u>	<u>Condition 11879, Part 14</u>	<u>Y</u>		<u>Propane firing limit < 95,738 gallons in consecutive 12 month period</u>	<u>Condition 11879, Part 17</u>	<u>P/M</u>	<u>Records</u>
NMHC <u>Limit</u>	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-37 and A-57 <u>and A-68</u>) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over the month	BAAQMD Condition 11879 Part 13	<u>P/A/D</u>	Records
					(A-37) Condition 11879 Parts 8 & 11	C	<u>Flow CPMS and VOC CPMS</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type						
					(A-57 and A-68) Condition 11879 Parts 6 & 7	C	Temperature CPMS						
					(A-57 and A-68) Condition 11879 Part 12	P/Initial	Source Test						
NOx (A-57 and A-68)	BAAQMD Condition 11879 Part 3	Y		25-50 ppm (3-15% O ₂ , dry)	BAAQMD Condition 11879 Parts 6 & 7	C	Temperature CPMS						
Outlet Temperature Limit (A-57 and A-68)	BAAQMD Condition 11879 Part 6	Y		Thermal Oxidizer: Minimum temperature of 1400 F minimum outlet temperature except during allowable temperature excursion averaged over 3 consecutive hours	BAAQMD Condition 11879 Parts 6 & 7	C	Temperature CPMS						
Temp Excursion (A-57 and A-68)	Condition 11879, Parts 15	Y		1400 F minimum outlet temperature except during allowable temperature excursion	Condition 11879 Part 16	P/E	Records						
VOC (A-57 and A-68)	Condition 11879 Part 5	Y		VOC destruction efficiency of 98.5 weight%: <table border="1" data-bbox="748 1669 1024 1860"> <tr> <td>Inlet VOC (ppmv)</td> <td>%</td> </tr> <tr> <td>>2000</td> <td>>98.5</td> </tr> <tr> <td>>200 to < 2000</td> <td>>97</td> </tr> </table>	Inlet VOC (ppmv)	%	>2000	>98.5	>200 to < 2000	>97	Condition 11879 Parts 6 & 7	C	Temperature CPMS
Inlet VOC (ppmv)	%												
>2000	>98.5												
>200 to < 2000	>97												

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H5.2 Wastewater
 Applicable Limits and Compliance Monitoring Requirements
 S-197, S-198 (2007, 2057) – ISF UNITS**

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit		Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				<200	>90			
VOC	Condition 11879 Part 9	Y		Vapors vented to A-37 carbon canisters and/or A-57 <u>and/or A-68</u> thermal oxidizers		Condition 11879 Part 9	C	Flow CPMS
<u>VOC (A37)</u>	<u>Condition 24245 Part 47</u>	<u>Y</u>		<u>< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)</u>		<u>Condition 24245 Part 48</u>	<u>P/D</u>	<u>Carbon with VOC CPMS</u>
Waste water Flow	Condition 11879 Part 2	Y		3000 gpm <u>combined total influent for S-194, S-195, S-197, S-198</u>		BAAQMD 2-6-409.2.2 <u>Condition on 11879 Part 2</u>	C <u>None</u>	<u>Wastewater Flow CPMS Records</u>

**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
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)						

VII. Applicable Limits and Compliance Monitoring Requirement

**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
Exempt per SIP Regulation 8-8-113							

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H7
 Applicable Limits and Compliance Monitoring Requirements
 Primary Sludge Thickener S-150 (PST-2051)
 WW Sludge Tank S-131 (TK-2069)
 Slop Oil Vessel S-200 (D-2056)**

BENZENE WASTEWATER

ABATED-ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
VOC	BAAQMD 8-8-304 & SIP 8-8-304	Y		Combined collection/destruction efficiency of 70% by weight	BAAQMD Condition 11879 Part 7	C	Temperature CPMS
NONE	40 CFR 63 Subpart CC – MACT 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 & 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)	Y		CVS with bypass line car-seal closed	40 CFR Part 63.647(a)	P/M	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H7
 Applicable Limits and Compliance Monitoring Requirements
 Primary Sludge Thickener S-150 (PST-2051)
 WW Sludge Tank S-131 (TK-2069)
 Slop Oil Vessel S-200 (D-2056)**

BENZENE WASTEWATER

ABATED-ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	61.349(a) (1)(ii)(B)				61.354(f)(1)		
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
BAAQMD Permit	PERMIT CONDITIONS FOR CARBON CANISTERS (A-37)						
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 <u>and A-68</u> and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879, Parts <u>8 & 11</u>	C	Flow CPMS and VOC CPMS
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 <u>and A-68</u> and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 13	<u>P/M/D</u>	Record
<u>VOC</u>	<u>Condition 11879 Part 9</u>	<u>Y</u>		<u>Vapors vented to A-37 carbon canisters and/or A-57 and/or A-68 thermal oxidizers</u>	<u>Condition 11879 Part 9</u>	<u>C</u>	<u>Flow CPMS</u>
	<u>Condition 11879 Part 18</u>			<u><100 ppm VOC or <5 ppm benzene</u>	<u>Condition 11879 Part 18</u>	<u>N</u>	<u>Records</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H7
 Applicable Limits and Compliance Monitoring Requirements
 Primary Sludge Thickener S-150 (PST-2051)
 WW Sludge Tank S-131 (TK-2069)
 Slop Oil Vessel S-200 (D-2056)**

BENZENE WASTEWATER

ABATED-ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC (A37)	Condition 24245 Part 47			< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)	Condition 24245 Part 48	P/	Ca
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

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H7
 Applicable Limits and Compliance Monitoring Requirements
 Primary Sludge Thickener S-150 (PST-2051)
 WW Sludge Tank S-131 (TK-2069)
 Slop Oil Vessel S-200 (D-2056)**

BENZENE WASTEWATER

ABATED-ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type								
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	640 CFR Part 3.647(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								
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZERS (A-57 and A-58)														
NOx	Condition 11879 Part 3	Y		NOx limit of 25-50 ppmvd corrected to 315 % O2	Condition 11879 Parts 6 & 7	C	Temperature CPMS								
CO	Condition 11879 Part 4	Y		CO limit of 50-350 ppmvd corrected to 153 % O2	Condition 11879 Parts 6 & 7	C	Temperature CPMS								
VOC	Condition 11879 Part 5	Y		VOC destruction efficiency of 98.5 weight%; <table border="1" style="margin-left: 20px;"> <tr> <td><u>Inlet VOC (ppmv)</u></td> <td><u>%</u></td> </tr> <tr> <td><u>>2000</u></td> <td><u>>98.5</u></td> </tr> <tr> <td><u>>200 to < 2000</u></td> <td><u>>97</u></td> </tr> <tr> <td><u><200</u></td> <td><u>>90</u></td> </tr> </table>	<u>Inlet VOC (ppmv)</u>	<u>%</u>	<u>>2000</u>	<u>>98.5</u>	<u>>200 to < 2000</u>	<u>>97</u>	<u><200</u>	<u>>90</u>	Condition 11879 Parts 6 & 7	C	Temperature CPMS
<u>Inlet VOC (ppmv)</u>	<u>%</u>														
<u>>2000</u>	<u>>98.5</u>														
<u>>200 to < 2000</u>	<u>>97</u>														
<u><200</u>	<u>>90</u>														
<u>VOC Temperature Limit</u>	Condition 11879 Part 6	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3 consecutive hours except during allowable temperature excursion	Condition 11879, Parts 6 & 7 <u>Condition 11879 Part 17</u>	C P/M	Temperature CPMS <u>Records</u>								
<u>Temp</u>	<u>Condition</u>	<u>Y</u>		<u>1400 F minimum outlet</u>	<u>Condition</u>	<u>P/E</u>	<u>Records</u>								

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H7
 Applicable Limits and Compliance Monitoring Requirements
 Primary Sludge Thickener S-150 (PST-2051)
 WW Sludge Tank S-131 (TK-2069)
 Slop Oil Vessel S-200 (D-2056)**

BENZENE WASTEWATER

ABATED-ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Excursion (A-57 and A-68)</u>	<u>11879, Parts 15</u>			<u>temperature except during allowable temperature excursion</u>	<u>11879 Part 16</u>		
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and <u>A-68 and</u> A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 6 & 7	C	Temperature CPMS
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and <u>and A-68</u> 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 <u>A-68 and</u> A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 13	<u>P/M/D</u>	Record
<u>Firing Rate (A-68)</u>	<u>Condition 11879, Part 14</u>	<u>Y</u>		<u>Propane firing limit < 95,738 gallons in consecutive 12 month period</u>	<u>Condition 11879, Part 17</u>	<u>P/M</u>	<u>Records</u>
<u>NMHC</u>		<u>Y</u>		<u>Record of NMHC emissions and carbon changeouts</u>	<u>Condition 11880 Part 4</u>	<u>P/M</u>	<u>Record</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055)**

SLOP OIL VESSEL – BENZENE WASTEWATER

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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
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 CPMS
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 & 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)	Y		Control device standards; includes 95% VOC efficiency	40 CFR Part 63.647(a)	P/D	VOC CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055)

SLOP OIL VESSEL – BENZENE WASTEWATER
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	61.349(a)(2)(ii)			requirement	61.354(d)		
BAAQMD Permit	PERMIT CONDITIONS FOR CARBON CANISTERS (A-37)						
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 <u>and A-68</u> and A-37) and diversion tanks (A-65 and A-36) < 15 lb/day, averaged over one month	Condition 11879, Part 11	C	Flow CPMS and VOC CPMS
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 <u>and A-68</u> and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 13	<u>P/AD</u>	Record
<u>VOC</u>	<u>Condition 11879 Part 9</u>	<u>Y</u>		<u>Vapors vented to A-37 carbon canisters and/or A-57 and/or A-68 thermal oxidizers</u>	<u>Condition 11879 Part 9</u>	<u>C</u>	<u>Flow CPMS</u>
	<u>Condition 11879 Part 18</u>			<u>< 100 ppm VOC or < 5 ppm benzene</u>	<u>Condition 11879 Part 18</u>	<u>N</u>	<u>Records</u>
<u>VOC</u>	<u>Condition 24245 Part 47</u>			<u>< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)</u>	<u>Condition 24245 Part 48</u>	<u>P/</u>	<u>C</u>

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055)

SLOP OIL VESSEL – BENZENE WASTEWATER
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
40 CFR Part 61, Subpart FF - NESHAPS for Benzene Waste Operations							
NESHAPS FF 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
c	40 CFR Part 63.647(a) 61.349(a)(2)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	40 CFR Part 63.647(a) 61.354(c)(1)	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055)

SLOP OIL VESSEL – BENZENE WASTEWATER

ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type								
	(i)(A)														
BAAQMD Permit	PERMIT CONDITIONS FOR THERMAL OXIDIZERS (A-57 and A-68)														
VOC NOx	Condition 11879 Part 3	Y		NOx limit of 25 ppmvd corrected to 3% O2	Condition 11879 Parts 6 & 7	C	Temperature CPMS								
VOC CO	Condition 11879 Part 4	Y		CO limit of 50 ppmvd corrected to 3% O2	Condition 11879 Parts 6 & 7	C	Temperature CPMS								
VOC	Condition 11879 Part 5	Y		VOC destruction efficiency of 98.5 weight% <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td><u>Inlet VOC (ppmv)</u></td> <td><u>%</u></td> </tr> <tr> <td><u>>2000</u></td> <td><u>>98.5</u></td> </tr> <tr> <td><u>>200 to < 2000</u></td> <td><u>>97</u></td> </tr> <tr> <td><u><200</u></td> <td><u>>90</u></td> </tr> </table>	<u>Inlet VOC (ppmv)</u>	<u>%</u>	<u>>2000</u>	<u>>98.5</u>	<u>>200 to < 2000</u>	<u>>97</u>	<u><200</u>	<u>>90</u>	Condition 11879 Parts 6 & 7	C	Temperature CPMS
<u>Inlet VOC (ppmv)</u>	<u>%</u>														
<u>>2000</u>	<u>>98.5</u>														
<u>>200 to < 2000</u>	<u>>97</u>														
<u><200</u>	<u>>90</u>														
VOC Temperature Limit	Condition 11879 Part 6	Y		1400 F minimum outlet temperature of thermal oxidizer averaged over 3 consecutive hours except during allowable temperature excursion	Condition 11879 Parts 6 & 7 Condition 11879 Part 17	C P/M	Temperature CPMS Records								
Temp Excursion (A-57 and A-68)	Condition 11879, Parts 15	Y		1400 F minimum outlet temperature except during allowable temperature excursion	Condition 11879 Part 16	P/E	Records								
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 and A-37) and diversion tanks (A-65 and A-36) < 15 lb/day, averaged over one month	Condition 11879 Parts 6 & 7	C	Temperature CPMS								
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 and A-37) and diversion tanks (A-36	Condition 11879 Part 12	P/initial	Source test								

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – H8
Applicable Limits and Compliance Monitoring Requirements
S-199 (D-2055)

SLOP OIL VESSEL – BENZENE WASTEWATER
ABATED BY A-37 CARBON CANISTERS AND/OR A-57 AND/OR A-68 THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				and A-65) < 15 lb/day, averaged over one month			
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879 Part 13	P/AD	Record
<u>Firing Rate (A-68)</u>	<u>Condition 11879, Part 14</u>	<u>Y</u>		<u>Propane firing limit < 95,738 gallons in consecutive 12 month period</u>	<u>Condition 11879, Part 17</u>	<u>P/M</u>	<u>Records</u>
<u>NMHC</u>		<u>Y</u>		<u>Record of NMHC emissions and carbon changeouts</u>	<u>Condition 11880 Part 4</u>	<u>P/M</u>	<u>Record</u>

Table VII – H9
Applicable Limits and Compliance Monitoring Requirements
Individual Drain Systems Subject 40 CFR Part 60, Subpart QQQ

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.692-2(a)(1)	Y		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

VII. Applicable Limits and Compliance Monitoring Requirement

VII. Applicable Limits and Compliance Monitoring Requirement

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
BAAQMD and SIP Regulation 8, Rule 18							
POC	BAAQMD 8-18-301	Y		General equipment leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	None	P/E	Method 21 Inspection
POC	BAAQMD 8-18-300	Y		Valves, Pumps, Compressors, Connectors, PRDs, and General Equipment	BAAQMD 8-18-401.5	P/E (24 hrs after repair/minimization)	Method 21 Inspection
POC	BAAQMD 8-18-302.1 8-18-302.2	N		Valve leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.2 or 8-18-404	P/Q (footnote a)	Method 21 Inspection
POC	BAAQMD 8-18-302.1 8-18-302.2	N		Inaccessible Valve leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.3	P/A	Method 21 Inspection
VOC	BAAQMD 8-18-302.3 8-18-306.2 8-18-306.3 8-18-306.4	N		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		Mass emission rate \leq 15 lb/day for valve with major leak (\geq 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		Mass emission rate \leq 15 lb/day for valve with major leak (\geq 10,000 ppm)	BAAQMD 8-18-401.10 8-18-604	P/A	Mass Emission Sampling
VOC	BAAQMD 8-18-303.1 8-18-303.2	N		Pump and compressor leak \leq 500 ppm or minimize in 24 hours,	BAAQMD 8-18-401.2	P/Q	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

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									
VOC	BAAQMD 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.6	P/A Every 5 years (footnote b)	Method 21 Inspection						
VOC	BAAQMD 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection						
VOC	BAAQMD 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD 8-18-401.2 & 8-18-401.7	P/Q	Method 21 Inspection						
VOC	BAAQMD 8-18-305	Y		Inaccessible PRDs leak < 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD 8-18-401.3	P/A	Method 21 Inspection						
VOC	BAAQMD 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm or minimize in 24 hours, repair in 15 days	BAAQMD 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection						
VOC	BAAQMD 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 8-18-502.4	P/Q	Report						
VOC	BAAQMD 8-18-306.2 8-18-306.3 8-18-306.4	N		Maximum percentage awaiting repair <table border="1" data-bbox="711 1669 982 1879"> <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-</td> <td>0.025</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-	0.025	BAAQMD 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-	0.025												

VII. Applicable Limits and Compliance Monitoring Requirement

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
				306.4 Pressure Reliefs 1.0 Pumps and Compressors 1.0			
VOC	BAAQMD 8-18-307	Y		Equipment liquid leaks minimize in 24 hours, repair in 7 days	None	P/E	Records
VOC		Y		Pumps and Compressors Evidence of Leak	BAAQMD 8-18-403	P/D	Visual Inspection
VOC	SIP 8-18-302	Y		Valve leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.2 or 8-18-404	P/Q (footnote a)	Method 21 Inspection
VOC	SIP 8-18-302	Y		Inaccessible Valve leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.3	P/A	Method 21 Inspection
VOC	SIP 8-18-303	Y		Pump and compressor leak \leq 500 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.2	P/Q	Method 21 Inspection
VOC	SIP 8-18-304.2	Y		Connection leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.6	P/A Every 5 years (footnote b)	Method 21 Inspection
VOC	SIP 8-18-304.2	Y		Connection leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
VOC	SIP 8-18-306.1	Y		Valve, pressure relief, pump or compressor must	SIP 8-18-502.4	P/Q	Report

VII. Applicable Limits and Compliance Monitoring Requirement

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
				be repaired within 5 years or at the next scheduled turnaround			
VOC	SIP 8-18-306.2	Y		Awaiting repair Valves ≤ 0.5% Pressure Relief ≤ 1% Pumps and Compressors ≤ 1%	SIP 8-18-502.4	P/Q	Report
BAAQMD Regulation 11-7 (Applies to equipment leaks in benzene service only)							
Benzene	BAAQMD 11-7-213	N		Pumps leak ≤ 10,000; or 1 st repair attempt 5 day, repaired 15 days	BAAQMD 11-7-501	P/M	Method 21 Inspection
Benzene	BAAQMD 11-7-213	N		Pump Leak Indicated by Dripping Liquid	BAAQMD 11-7-401	P/W	Visual Inspection
Benzene	BAAQMD 11-7-310.4	N		Pumps under “Delay of Repair” repaired within 6 months.	None	P/E	Records
Benzene	BAAQMD 11-7-213 and 11-7-307	N		Valves leak ≤ 10,000; or 1 st repair attempt 5 day, repaired 15 days	BAAQMD 11-7-501	P/M	Method 21 Inspection
Benzene	BAAQMD 11-7-213	N		Valves leak < 10,000 ppm 2 successive months w/o leaking.	BAAQMD 11-7-307.1	P/Q (if criteria met)	Method 21 Inspection
Benzene	BAAQMD 11-7-213	N		Valves leak < 10,000 ppm 2 successive quarters w/< 2% leaking	BAAQMD 8-18-302	P/SA (if criteria met) (note c)	Method 21 Inspection
Benzene	BAAQMD 11-7-213	N		Valves leak < 10,000 ppm 5 successive quarters w/< 2% leaking.	BAAQMD 11-7-313.3	P/A (if criteria met)	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

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
						(note c)	
Benzene	BAAQMD 11-7-213	N		Pressure Relief Valves (liquid), flanges, connectors; leak ≤ 10,000; or 1 st repair attempt 5 day, repaired 15 days	BAAQMD 8-18-304	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection
Benzene		N		Monitoring and Repair Reporting	BAAQMD 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)							
VOC	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 put on delay of repair list	40 CFR Part 60.482-2 (a)(1)	P/M	Method 21 Inspection
VOC	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
VOC	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
VOC	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
VOC	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
VOC	40 CFR Part 60.482-4(a)	Y		Pressure relief valve (gas/vapor) not vented to	None	P/E	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

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
				abatement < 500 ppm			
VOC	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
VOC	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
VOC	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
VOC	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
VOC	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
VOC	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
VOC	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 be)	P/SA (if criteria are met)	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

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 60.483-2	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 be)	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 1 st 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
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

VII. Applicable Limits and Compliance Monitoring Requirement

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 60.482-4a(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 Part 60.482-7a(h)	Y		Valve designated “Difficult to monitor (up to 3% of total valves)” leak < 500 ppm	40 CFR Part 60.482-7a(h)(3)	P/A	Method 21 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	40 CFR Part 60.483-2a(b)(2) (footnote be)	P/SA (if criteria are met)	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

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
				ppm. ^c			
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 be)	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 60.593a(g) 60.482-8a(b)	Y		Flanges, Connectors in gas/vapor and light liquid service leak < 10,000 ppm	40 CFR Part 60.593a(g) 60.482.8a(a)	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection to 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)							
VOC	40 CFR Part 61.343	Y		Tanks fittings leak ≤ 500 ppm	40 CFR Part 61.343	P/A	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirement

**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
	(a)(1)(i)(A)				(a)(1)(i)(A)		
VOC	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
VOC	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
VOC	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**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-28-303.2	N		Facility to implement Process Safety Requirements of BAAQMD 8-28-405 for Pressure Relief Devices	BAAQMD 8-28-502.1	P/E	Records
VOC	SIP 8-28-303.2	Y		Pressure Relief Devices to Meet Prevention Measures Procedures of SIP 8-28-405.	None	N (one-time, completed)	N/A
VOC	BAAQMD 8-28-304.1 SIP 8-28-304.1	Y		Pressure Relief Device with reportable releases in 5-year period.	BAAQMD 8-28-304.1 8-28-405 SIP 8-28-304.1 8-28-405	P/E (90 day after release) P/E (120 day after release)	PHA & PMP Report Install tamper-proof indicators

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – I2
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO REGULATION 8, RULE 28

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-28-304.1	N		Pressure Relief Device with reportable releases in 5-year period.	BAAQMD 8-28-304.1 8-28-405	P/E (90 day after release)	Submit PHA report to BAAQMD
VOC	BAAQMD 8-28-304.2	Y		After 2 nd release in 5 years; Vent Pressure Relief Devices to an Abatement Device	BAAQMD 8-28-304.2	P/E (1 year after release)	
VOC	BAAQMD 8-28-401	N		Pressure Relief Device Release Event Reporting	BAAQMD 8-28-401	P/E (1 working day and 30 days after release)	Report
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	As specified	Monitoring System

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – I2
Applicable Limits and Compliance Monitoring Requirements
ATMOSPHERIC PRESSURE RELIEF DEVICES SUBJECT TO REGULATION 8, RULE 28

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
					BAAQMD 8-28-406	P/E (one time report submittal)	Monitoring System Demonstration Report
					BAAQMD 8-28-502.4	As specified	Monitoring System Records

Footnotes to Table VII-I1

^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 inspected.~~

^{be} 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.

Table VII – J13
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	Organic Compounds - STORAGE OF ORGANIC LIQUIDS						

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J13
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
Regulation 8-5	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 Requirement

Table VII – J13
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
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 Requirement

Table VII – J24
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	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J24
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
						consecutive 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 – 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 Requirement

Table VII – J36
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	Method 21 portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J36
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
						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 Requirement

Table VII – J47
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 Requirement

Table VII – J47
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 – J58
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	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 Requirement

Table VII – J58
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
	8-5-117 8-5-301						
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	Records

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J58
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
						replacement	
NESHAPS CC	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries 40 CFR Part 63, Subpart G – SO2MI 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 – J69
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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J69
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
							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 and NSPS Kb	40 CFR Part 63, Subpart CC – NESHAPS for Petroleum Refineries						
	40 CFR Part 60, Subpart Kb – NSPS for VOL Storage Tanks						

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J69
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
LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS							
VOC	63.640 (n)(1), 60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	63.640(n)(8) 60.113b (b)(6)	Each time emptied & degassed	visual inspection
VOC	63.640 (n)(1), 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b (b)(1)-(b)(3)	5 yr intervals	measurement and visual inspection
VOC	63.640 (n)(1), 60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b (b)(1)-(b)(3)	P/A	measurement and visual inspection
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8) 60.116b (c)	Upon change of service	Record
VOC		Y		Seal inspection records for report in 60.115b(b)(2)	63.640(n)(8) 60.115b(b)(3)	For each gap measurement	Record
VOC		Y		Inspection report for non-compliant seals	63.640(n)(8) 60.115b(b)(4)	Within 30 days of seal inspection	Report
BAAQMD Permit	PERMIT CONDITIONS						
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	BAAQMD	Y		Store crude oil only	BAAQMD	P/D	Record

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J69
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
Stored (S-1047 and S-1048)	Condition 20820, Part 31				Condition 20820, Part 33		
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 combined	BAAQMD Condition 20820, Part 33	P/D	Record

Table VII – J711
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)
INTERNAL FLOATING 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 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	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	P/10 year intervals and	Seal inspection

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J711
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)
INTERNAL FLOATING 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
	SIP 8-5-321					every time a seal is replaced	
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	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	Records

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J711
Applicable Limits and Compliance Monitoring Requirements
S-89 (TK-1761)
INTERNAL FLOATING 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
						replacement	
NONE	40 CFR Part 63, Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.						

Table VII – J812
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, 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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J812
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, 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 8-5-305, 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 Requirement

Table VII – J913
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 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
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 Requirement

Table VII – J913
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
						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		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/after each tank seal replacement	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
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,	63.640(n)(8),	For each tank	record

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J913
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
				annual, and 10-year tank inspection	60.115b(a)(2)	inspection	
VOC		Y		Report of non-compliant annual inspection for tanks with secondary seals	63.640(n)(8), 60.115b(a)(4)	Within 30 days of inspection	report
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition 9296 Part C1	Y		The total throughput shall not exceed 1,303,000 barrels of ethanol in any rolling 12 consecutive month period.	BAAQMD Condition 9296 Part C6	P/M	Records of monthly and annual tank throughputs
POC	BAAQMD Condition 9296 Part C2	Y		Total POC emissions including fugitive POC emissions shall not exceed 0.87 tons in any rolling 12 consecutive month period.	BAAQMD Condition 9296 Part C6	P/M	Records of monthly and annual tank throughputs
					BAAQMD 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 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 – J1014
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						

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J1014
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
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 Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	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)
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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J1014
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 8-5-328.1	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
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 – J115
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	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;

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J115
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 Condition 20762, Part 1						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 Requirement

Table VII – J126
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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J126
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	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 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.						

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J137
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 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	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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J137
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
							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	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 Requirement

Table VII – J148
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
				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	SIP 8-5-403	P/SA	Method 21 portable

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J148
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
				ppm (as methane) above background	8-5-503 8-5-605		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 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
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 Requirement

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J159
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 63.655(i)(1) (iv)	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – ~~J1620~~
 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 – ~~J1721~~
 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 Requirement

**Table VII – ~~J1721~~
 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 63.655(i)(1)(iv)	P/E	Record

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J1823
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
				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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J1823
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
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 – J1927
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 8-5	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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J1927
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
				<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 8-5-331.1	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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J208
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
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 Requirement

Table VII – J219
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 – J2230
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 Requirement

Table VII – J2230
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 63.655(i)(1)(iv)	P/E	Record

Table VII – J2331-2
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		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		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2432
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 SIP 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 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	SIP 8-5-503	P/each time emptied &	Portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2432
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
				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)2, 60.112b(a)(2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a)2, 60.113b(b)(6)	Each time emptied & degassed	visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	P/A	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2534
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 SIP 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321 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 8-5-320 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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2534
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
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)(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	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 &	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2534
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
	(a)(4)					degassed, and at least every 10 years	
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
<u>Throughput (S-101 Only)</u>	<u>BAAQMD Condition 25417, Part 1</u>	<u>Y</u>		<u>5,004,714 barrels per consecutive 12-month period</u>	<u>BAAQMD Condition 25417, Part 3c</u>	<u>P/M</u>	<u>Records</u>

Table VII – J2635
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 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	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change	Look up table or sample analysis;

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2635
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
	SIP 8-5-117 8-5-301					of service	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 degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC	BAAQMD	N		Tank cleaning agents	BAAQMD	N	Sample

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2635
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
	8-5-331.1			IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	8-5-331.1		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),	Y		Internal visual inspection	63.647(a),	P/A	visual

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – ~~J2635~~
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
	61.351(a)(1), 60.113b (a)(2)			from viewports of fixed roof	61.351(a)(1), 60.113b(a)(2)		inspection

Table VII – ~~J2738~~
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

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 Requirement

**Table VII – J2738
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**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				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		Approved emission control system; 95% efficiency requirement Thermal Oxidizer only	BAAQMD 8-5-502.1	P/A	Source Test
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement Carbon Canisters only	BAAQMD 8-5-502	N	No monitoring required – periodic source tests in Condition 11880
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	Condition 11880 Parts 3 and 7	C	Flow CPMS and VOC CPMS (A-36 Carbon canisters)
VOC	BAAQMD 8-5-306	Y		Control device standards; includes 95% efficiency	Condition 11880	C	Temperature

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – J2738
 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**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 8-5-306.1			requirement	Parts 11, 12, 13		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 parameter (VOC mass emissions)
VOC (A36)	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	Condition 11880 Parts 3 and 7	C	Flow CPMS and VOC CPMS
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,	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – J2738
 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**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					13		
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 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 CPMS
BAAQMD Permit	PERMIT CONDITIONS FOR CVS & CONTROL DEVICES – A36 Carbon Canisters and A65 Thermal Oxidizer						
<u>NOx</u>	<u>Condition 11880, Part 9</u>	<u>Y</u>		<u>NOx limit of 50 ppmvd corrected to 15% O2</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>CO</u>	<u>Condition 11880, Part 10</u>	<u>Y</u>		<u>CO limit of 350 ppmvd corrected to 15% O2</u>	<u>Condition 11880, Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>Firing Rate</u>	<u>Condition</u>	<u>Y</u>		<u><284,950 gallons of</u>	<u>Condition</u>	<u>P/M</u>	<u>Records</u>

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – J2738
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**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Limit</u>	<u>11880, Part 8</u>			<u>propane in any consecutive 12 month period</u>	<u>11880 Part 15</u>		
NMHC (A36)	BAAQMD Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and <u>A-68 and A-37</u>) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11880, Parts 3 and 7	C	Flow CPMS and VOC CPMS
NMHC (A65)	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and <u>A-68 and A-37</u>) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11880 Parts <u>3, & 12, 13</u>	C	Temperature CPMS
NMHC	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and <u>A-68 and A-37</u>) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month Record	Condition 11880 Part 4	P/D	Records and Calculations
<u>NMHC</u>		<u>Y</u>		<u>Record of NMHC emissions and carbon changeouts</u>	<u>Condition 11880 Part 4</u>	<u>P/M</u>	<u>Records</u>
Temperature limit	Condition 11880 Part 11	Y		1400° F. in outlet or as determined by source test <u>averaged over 3 consecutive hours except during allowable temperature excursion</u>	Condition 11880 Parts <u>3 & 12, 13</u>	C	Temperature CPMS
					<u>Condition 11880 Part 15</u>	<u>P/M</u>	<u>Records</u>
<u>Temp Excursion</u>	<u>Condition 11880, Part 13</u>	<u>Y</u>		<u>1400 F minimum outlet temperature except during allowable temperature excursion</u>	<u>Condition 11880 Part 14</u>	<u>P/E</u>	<u>Records</u>
<u>VOC or Benzene</u>	<u>Condition 11880</u>	<u>Y</u>		<u>< 100 ppm VOC or</u>	<u>Condition 11880</u>	<u>None</u>	<u>Records</u>

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2738
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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type								
	Part 16			< 5 ppm benzene	Part 16										
VOC	Condition 11880 Part 17	Y		VOC destruction efficiency <table border="1"> <tr> <td>Inlet VOC (ppmv)</td> <td>%</td> </tr> <tr> <td>>2000</td> <td>>98.5</td> </tr> <tr> <td>>200 to < 2000</td> <td>>97</td> </tr> <tr> <td><200</td> <td>>90</td> </tr> </table>	Inlet VOC (ppmv)	%	>2000	>98.5	>200 to < 2000	>97	<200	>90		C	Temperature CPMS
Inlet VOC (ppmv)	%														
>2000	>98.5														
>200 to < 2000	>97														
<200	>90														
VOC (A36)	Condition 24245 Part 47	Y		< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)	Condition 24245 Part 48	P/D	Carbon with VOC CPMS								

Table VII – J2840
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

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	Y		True vapor pressure	BAAQMD 8-5-501.1	P/E initially and upon change	Look up table or sample analysis;

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2849
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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	SIP 8-5-117 8-5-301					of service	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 Pressure vacuum valve sealing mechanism must be vented to abatement with 95% efficiency	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)
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 Thermal oxidizer only	BAAQMD 8-5-502.1	P/A	Source Test
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement Carbon Canisters only	BAAQMD 8-5-502	N	No monitoring required – periodic source tests in

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2849
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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
							Condition 11880
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	Condition 11880 Parts 3 and 7	C	Flow CPMS and VOC 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 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						

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2849
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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21 portable hydrocarbon detector
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)
VOC (A36)	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Condition 11880 Parts 3 and 7	C	Flow CPMS and VOC CPMS
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	BAAQMD Condition 11880 Parts 11, 12, 13	C	Temperature CPMS
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)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1)(i)(B)	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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2849
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

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	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 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 CPMS
BAAQMD Permit	PERMIT CONDITIONS FOR CVS & CONTROL DEVICES– A36 Carbon Canisters and A65 Thermal Oxidizer						
<u>NOx</u>	<u>Condition 11880, Part 9</u>	<u>Y</u>		<u>NOx limit of 25 ppmvd corrected to 3% O2</u>	<u>Condition 11880 Parts 11 & 12</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>CO</u>	<u>Condition 11880, Part 10</u>	<u>Y</u>		<u>CO limit of 50 ppmvd corrected to 3% O2</u>	<u>Condition 11880 Parts 11 & 12</u>	<u>C</u>	<u>Records</u>
<u>Firing Rate Limit</u>	<u>Condition 11880, Part 8</u>	<u>Y</u>		<u><284,950 gallons of propane in any consecutive 12 month period</u>	<u>Condition 11880 Part 15</u>	<u>P/M</u>	<u>Records</u>
NMHC (A36)	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11880, Parts 3 and 7	C	Flow CPMS and VOC CPMS
NMHC (A65)	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 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 CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2849
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

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	Condition 11880 Part 2	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 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	Condition 11880 Part 4	P/M	Record
Temperature limit	Condition 11880 Part 11	Y		1400 F. in outlet or as determined by source test averaged over 3 consecutive hours except during allowable temperature excursion	Condition 11880 Parts 3 & 12 13	C	Temperature CPMS
					Condition 11880 Part 15	P/M	Records
Temp Excursion	Condition 11880 Part 13	Y		1400 F minimum outlet temperature except during allowable temperature excursion	Condition 11880 Part 14	P/E	Records
VOC or Benzene	Condition 11880 Part 16	Y		< 100 ppm VOC or < 5 ppm benzene	Condition 11880 Part 16	None	Records
VOC	Condition 11880 Part 17	Y		VOC destruction efficiency		C	Temperature CPMS
				Inlet VOC (ppmv)	%		
				>2000	>98.5		
				>200 to < 2000	>97		
<200	>90						
VOC (A36)	Condition 24245 Part 47	Y		< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)	Condition 24245 Part 48	P/D	Carbon with VOC CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J2941
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 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 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 routed to fuel gas system.						

Table VII – J3042
Applicable Limits and Compliance Monitoring Requirements
MACT EXEMPT 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	N		Pressure relief devices on	BAAQMD	P/SA	Method 21

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J3042
Applicable Limits and Compliance Monitoring Requirements
MACT EXEMPT 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
	8-5-307.3			pressure tank must be gas tight (< 500 ppm as methane)	8-5-403 8-5-403.2 SIP 8-5-403		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) SIP 8-5-403	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

Table VII – J3143
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	Organic Compounds - STORAGE OF ORGANIC LIQUIDS (11/27/02) LIMITS AND MONITORING FOR PRESSURE TANKS						

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J3143
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
8-5							
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
				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	Y		Approved Emission Control System standards; includes 95% efficiency requirement	BAAQMD 8-5-503	N	No monitoring – recovered vapors returned to tank
VOC	BAAQMD 8-5-328.1	N		Residual organic concentration of < 10,000 ppm as methane after	BAAQMD 8-5-328.1	P/each time emptied & degassed;	Method 21 portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – J3143
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
				degassing		4 consecutive 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

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57 AND A-68, WWTP THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Condition 11879, Part 4	Y		Emissions of CO < 50 <u>350</u> ppmv @ 315 % O2	Condition 11879, Parts 6 & 7	C	Temperature CPMS
<u>Firing Rate (A-68)</u>	<u>Condition 11879, Part 14</u>	<u>Y</u>		<u>Propane firing limit < 95,738 gallons in consecutive 12 month period</u>	<u>Condition 11879, Part 17</u>	<u>P/M</u>	<u>Records</u>
NOX	Condition 11879, Part 3	Y		Emissions of NOX < 25 <u>50</u> ppmv @ 315 % O2	Condition 11879, Parts 6 & 7	C	Temperature CPMS
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 11879, Part 6 & 7	C	Temperature CPMS
Opacity	SIP	Y		Ringelmann No. 1 for no more	Condition	C	Temperature

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57 AND A-68, WWTP THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	6-301			than 3 minutes in any hour	11879 Part 6 & 7		CPMS
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	Condition 11879, Part 6 & 7	C	Temperature CPMS
FP	SIP 6-310	Y		0.15 gr/dscf	Condition 11879 Part 6 & 7	C	Temperature CPMS
VOC	BAAQMD 8-5-306	N		95% control of organic vapors	BAAQMD 8-5-502.1 8-5-603	P/A	Source Test
VOC	SIP 8-5-306.1	Y		95% control of organic vapors	Condition 11879, Part 6 & 7	C	Temperature CPMS
VOC	BAAQMD 8-8-302.3 SIP 8-8-302.3	Y		95% combined collection and destruction efficiency	Condition 11879, Part 6 & 7	C	Temperature CPMS
VOC	BAAQMD 8-8-304 SIP 8-8-304	Y		95% combined collection and destruction efficiency by weight	Condition 11879, Part 6 & 7	C	Temperature CPMS
VOC	BAAQMD 8-8-305.2 SIP 8-8-305.2	Y		70% combined collection and destruction efficiency by weight	Condition 11879, Part 6 & 7	C	Temperature CPMS
VOC	BAAQMD 8-8-307.2 SIP 8-8-307.2	Y		70% combined collection and destruction efficiency by weight	Condition 11879, Part 6 & 7	C	Temperature CPMS
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

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57 AND A-68, WWTP THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type								
							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 CPMS								
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 and A-37) and diversion tanks (A-36 and A-65) < 15 lb/day, averaged over one month	Condition 11879, Part 6 & 7	C	Temperature CPMS								
NMHC	Condition 11879, Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 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-68 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								
VOC	Condition 11879, Part 5	Y		<u>98.5% control VOC destruction efficiency:</u> <table border="1" data-bbox="711 1612 990 1801"> <thead> <tr> <th>Inlet VOC (ppmv)</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>>2000</td> <td>>98.5</td> </tr> <tr> <td>>200 to < 2000</td> <td>>97</td> </tr> <tr> <td><200</td> <td>>90</td> </tr> </tbody> </table>	Inlet VOC (ppmv)	%	>2000	>98.5	>200 to < 2000	>97	<200	>90	Condition 11879, Part 6 & 7	C	Temperature CPMS
Inlet VOC (ppmv)	%														
>2000	>98.5														
>200 to < 2000	>97														
<200	>90														

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – K1
Applicable Limits and Compliance Monitoring Requirements
A57 AND A-68, WWTP THERMAL OXIDIZERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature limit	Condition 11879, Part 6	Y		1400° F. in outlet or as determined by source test averaged over 3 consecutive hours except during allowable temperature excursion	Condition 11879, Part 6 & 7	C	Temperature CPMS
					<u>Condition 11879 Part 17</u>	<u>P/M</u>	<u>Records</u>
<u>Temp Excursion</u>	<u>Condition 11879, Parts 15</u>	<u>Y</u>		<u>1400 F minimum outlet temperature except during allowable temperature excursion</u>	<u>Condition 11879 Part 16</u>	<u>P/E</u>	<u>Records</u>
<u>VOC</u>	<u>Condition 11879 Part 9</u>	<u>Y</u>		<u>Vapors vented to A-37 carbon canisters and/or A-57 and/or A-68 thermal oxidizers</u>	<u>Condition 11879 Part 9</u>	<u>C</u>	<u>Flow CPMS</u>

Table VII – K2
Applicable Limits and Compliance Monitoring Requirements
A65, DIVERSION AREA 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	Condition 11880, p Part 10	Y		Emissions of CO < 350 ppmv @ 15% O2	Condition 11880, Parts 11 & 12	C	Temperature CPMS
NOX	Condition 11880, p Part 9	Y		Emissions of NOx < 50 ppmv @ 15% O2	Condition 11880, Parts 11 & 12	C	Temperature CPMS
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 11880, Parts 11 & 12	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any	Condition 11880,	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – K2
 Applicable Limits and Compliance Monitoring Requirements
 A65, DIVERSION AREA 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
				hour	Parts 11 & 12		
FP	BAAQMD 6-1-310	N		0.15 gr/dscf	Condition 11880, Parts 11 & 12	C	Temperature CPMS
FP	SIP 6-310	Y		0.15 gr/dscf	Condition 11880, Parts 11 & 12	C	Temperature CPMS
VOC	BAAQMD 8-5-306	Y		95% control of organic vapors	BAAQMD 8-5-502.1 8-5-603	P/A	Source Test
VOC	SIP 8-5-306.1	Y		95% control of organic vapors	Condition 11880, Parts 11 & 12	C	Temperature CPMS
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(c)(1)	C	Temperature CPMS
NMHC	Condition	Y		Total combined NMHC	Condition	P/Initial	Source Test

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – K2
 Applicable Limits and Compliance Monitoring Requirements
 A65, DIVERSION AREA 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
	11880, part Part 2			emissions from WWTP (A-37 and A-57) and diversion tanks (A-36 and A65) < 15 lb/day, averaged over one month	11880, part 3		
NMHC	Condition 11880, part 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 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 CPMS
Temperature limit	Condition 11880, parts Parts 11 & 13	Y		1400° F. in outlet or as determined by source test except during allowable temperature excursions	Condition 11880, Parts 3 & 12	C	Temperature CPMS
					Condition 11880 Part 15	P/M	Records
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 <u>Limit</u>	Condition 11880, part Part 8	Y		Propane firing <u>limit < 284,950 gallons of propane in any consecutive 12 month period</u>	Condition 11880, P part 15	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – K3
Applicable Limits and Compliance Monitoring Requirements
A37, WWTP CARBON CANISTERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	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 VOC CPMS
VOC	BAAQMD 8-8-302.3 SIP 8-8-302.3	Y		95% combined collection and destruction efficiency	Condition 11879, Parts 1 & 8	C	Carbon with Flow CPMSand VOC CPMS
VOC	BAAQMD 8-8-304 SIP 8-8-304	Y		95% combined collection and destruction efficiency by weight	Condition 11879, Part 6 & 7	C	Temperature CPMS
VOC	BAAQMD 8-8-305.2 SIP 8-8-305.2	Y		70% combined collection and destruction efficiency by weight	Condition 11879, Parts 1 & 8	C	Carbon with Flow CPMSand VOC CPMS
VOC	BAAQMD 8-8-307.2 SIP 8-8-307.2	Y		70% combined collection and destruction efficiency by weight	Condition 11879, Parts 1 & 8	C	Carbon with Flow CPMSand VOC CPMS

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – K3
 Applicable Limits and Compliance Monitoring Requirements
 A37, WWTP CARBON CANISTERS**

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 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
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 and A-37) and diversion tanks (A-36 and A-065) < 15 lb/day, averaged over one month	Condition 11879 Parts 8 & 11	P/D C	<u>Measurements and Calculations Flow CPMS and VOC CPMS</u>
NMHC	Condition 11879 Part 10	Y		Total combined NMHC emissions from WWTP (A-57 and A-68 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
<u>VOC</u>	<u>Condition 11879 Part 9</u>	<u>Y</u>		<u>Vapors vented to A-37 carbon canisters and/or A-57 and/or A-68 thermal oxidizers</u>	<u>Condition 11879 Part 9</u>	<u>C</u>	<u>Flow CPMS</u>
<u>For Benzene</u>	<u>Condition 11879 Part 18</u>	<u>Y</u>		<u><100 ppm VOC or <5 ppm benzene</u>	<u>Condition 11879 Part 18</u>	<u>None</u>	<u>Records</u>
<u>VOC</u>	<u>Condition 24245, Part 47</u>	<u>Y</u>		<u>< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)</u>	<u>Condition 24245, Part 48</u>	<u>P/D</u>	<u>Carbon with VOC CPMS</u>

VII. Applicable Limits and Compliance Monitoring Requirement

VII. Applicable Limits and Compliance Monitoring Requirement

Table VII – K4
Applicable Limits and Compliance Monitoring Requirements
A36, DIVERSION AREA CARBON CANISTERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	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 8-5-502-48-5-502	<u>P/A/N</u>	<u>Source Test No monitoring required – periodic source tests in Condition 11880</u>
VOC	SIP 8-5-306.1	Y		95% control of organic vapors	Condition 11880, Part 1 & 7	C	Carbon with VOC CPMS
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	Y		CVS with bypass line	40 CFR Part	P/M	Visual

VII. Applicable Limits and Compliance Monitoring Requirement

**Table VII – K4
 Applicable Limits and Compliance Monitoring Requirements
 A36, DIVERSION AREA CARBON CANISTERS**

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)			car-seal closed	61.354(f)(1)		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
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 and A68) < 15 lb/day, averaged over one month	Condition 11880, Parts 3 & 7	P/D C	Measurements and Calculations <u>Flow w CPMS and VOC CPMS</u>
NMHC	Condition 11880, Part 2	Y		Total combined NMHC emissions from carbon canisters (A-36 and A-37) and thermal oxidizers (A-57 and A65 and A-68) < 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	Condition 11880 Part 4	P/M	Records
VOC or Benzene	Condition 11880 Part 18	Y		<100 ppm-VOC or <5 ppm-benzene	Condition 11880 Part 1	None	Records
<u>VOC</u>	<u>Condition 24245 Part 47</u>	<u>Y</u>		<u>< 100 ppm between primary and secondary canisters (a reading equal to or greater than 100 ppm constitutes breakthrough)</u>	<u>Condition 24245 Part 48</u>	<u>P/D</u>	<u>Carbon with VOC CPMS</u>

VII. Applicable Limits and Compliance Monitoring Requirement

DRAFT -- DO NOT CITE OR QUOTE -- DRAFT

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 1-522	Continuous Emission Monitoring	Manual of Procedures, Volume V
BAAQMD 1-605	Laboratory, Source Test and Air Monitoring Procedures	Manual of Procedures
BAAQMD 6-1-301 SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-302 SIP 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD 6-1-303 SIP 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-304 SIP 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-310 SIP 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling
BAAQMD 6-1-311 SIP 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD 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 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

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 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 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 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 8-5-303.2 8-5-306.1 8-5-307.3 8-5-502.1 (8-5-603)	Approved Emission Control System , or other abatement device for compliance with BAAQMD 8-5, 95% Abatement Efficiency Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic 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 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 8-5-321	Floating Roof Tank (internal and external) primary rim seal gap	Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
SIP 8-5-321	measurement	8-5-402.1 (internal floating roof tanks).
BAAQMD 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 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 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 8-5-328.1.2	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
BAAQMD 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 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 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)

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-7-302.8	Phase II Liquid Removal Requirements	Manual of Procedures, Volume IV, ST-37, Gasoline Dispensing Facility Liquid Removal Devices
BAAQMD 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 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 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 8-8-114, 8-8-501	Bypass Wastewater Requirements – Concentration of Dissolved Critical Organic Compounds	Manual of Procedures, Volume III, Lab Method 33
BAAQMD 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 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 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 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 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 8-8-313.2	Uncontrolled Wastewater Collection System Components	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
	At Petroleum Refineries	detector
BAAQMD 8-18	Fugitive Emission Monitoring Requirements	EPA Method 21 (40 CFR Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD 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 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 8-44-301	POC emission rate limitation and emission reduction efficiency (>=95%) during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Loading Terminals and ST-34, Bulk and Marine Loading Terminals, Vapor Recovery Units
SIP 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 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 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 9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Lab Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 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 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 9-1-313.2 and	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

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
SIP 9-1-313.2		Ion Electrode or equivalent method approved by APCO
BAAQMD 9-2-301 9-1-301	Limitations on H ₂ S Ground Level Concentrations	BAAQMD and SIP Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD 9-3-303	NO _x Emission Limit for New or Modified Heat Transfer Operations	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, 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 9-9-301.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-9-301.1 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 9-10-112	Limited Exemption, Low Fuel Usage	ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89
BAAQMD 9-10-301	Refinery-Wide NO _x Emission Limit	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling. For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NOx Monitoring Policy.
BAAQMD 9-10-303	NO _x Emission Limit for Facility (Federal Requirement), 0.20 lb per MMBTU of heat input, operating day average	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling. For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NOx Monitoring Policy.
BAAQMD 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

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 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 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 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 60.113b	NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement	40 CFR Part 61, Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
(b)(4)(i)		
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 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 60.482-8(b)	Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection	EPA Method 21 (40 CFR 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	Individual valves meeting criteria	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart VV 60.483-2	for skip period leak detection – leak detection	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 60.482-7a(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 VVa 60.485a(b)
40 CFR Part 60	Pumps and valves in heavy liquid	EPA Method 21 (40 CFR Part 60, Appendix A) Determination of

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart VVa 60.482-8a(b)	service, pressure relief devices (liquid), and flanges and other connectors – leak detection	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 61.345 (a)(1)(i)	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 60, Subpart VV 60.485(b)

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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: <ol style="list-style-type: none"> (1) Method 8020, Aromatic Volatile Organics, (2) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series (3) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics (4) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique From 40 CFR Part 136, Appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which these are approved EPA methods: <ol style="list-style-type: none"> (1) Method 602, Purgeable Aromatics, (2) Method 624, Purgeables

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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 CC 63.654(c)(1)	Refinery MACT VOC leak limitation at heat exchange systems	Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources (40 CFR 63.14(n)(1))
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

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)

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 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.

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a “hybrid” monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

**Table IX B - 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.)

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
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.)

**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-	BAAQMD Regulation 10-4 replaces the 30-day rolling NOx average with a 24-hour maximum limit as the averaging

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
		Institutional Steam Generating Units	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.

**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	Standards	BAAQMD	Allows delay of repair of valves

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
60.482-9(e)		8-18-306	beyond a process unit shutdown under specific circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
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, whichever is sooner.

X. REVISION HISTORY

Initial Major Facility Review Permit Issuance (Application No. 3281):	December 1, 2003
Administrative Amendment (no application):	May 27, 2004
Reopening (Application No. 9298): "Revision 1"	December 16, 2004
Minor Revision (through Application No. 2488)	December 16, 2004
Reopening (Application No. 11697): ▪ "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) ▪ "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 Amendment 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. ▪ 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	March 2, 2007

X. Revision History

- 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 totes and contains low VP additive materials),

Renewal

- Revision (Application No. 18288)
 - NSR 5846/TV19633 (VIP Crude Tanks, S-1047, S-1048, Condition 20820 later amended by NSR 16937/TV16933)

X. Revision History

- 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 NO_X 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

Minor Revision (Application No.24261)

Insert Minor Revision Date

▪ "Revision 5"

- NSR 16707/TV 16708 (S-43, S-44, and S-46 source test frequency corrected in Condition 24198, Part 11)
- NSR 20383/TV 20558 for S23 NO_x limit for low firing, startup, shutdown, and curtailed operations
- NSR 20690/TV 22052 (A-68 TO at WWTP)
- NSR 21350/TV 21655 for S-252 Emergency Diesel H₂O Pump replaced S-240
- NSR 21490/TV 22712 (S-1010 source test frequency)
- NSR 21573/TV 22054 (Dump Stack for FCCU/Coker P-69)
- NSR 22080/TV 24261 (BAP connection to S-1003 HCU, consolidated with 24386/24413)
- NSR 22081/TV 24261 (S-23 Ultra Low NO_x Burner replacement)
- NSR 22082/TV 22726 (S-1063 Alkylolation Guard Beds, fugitive equipment)

X. Revision History

- [NSR 22574/TV 24261 \(S-16 Acid Gas Flare, tip replacement\)](#)
- [NSR 22602/TV 22603 \(Condition 21233, source test submittal dates\)](#)
- [NSR 22710/TV 22711 \(S-1059, S-1060 Consent Decree 3-year RATA allowance, consolidated with 24379/24273\)](#)
- [NSR 22998/TV 24261 \(S-165, EVR PTO and annual throughput increase\)](#)
- [NSR 23701/TV 24261 \(S-22 Ultra-Low NOx Burner replacement\)](#)
- [NSR 23841/TV 23842 \(S-129, Marine Loading \(LD-129\), Condition 1709\)](#)
- [NSR 24094/TV 24106 \(S-34, S-35, S-40, S-41 NOx Box calculations for intermittent operations\)](#)
- [NSR 24329/TV 24334 \(VIP Cleanup\)](#)
- [NSR 24379/TV 24273 \(Consolidation of Consent Decree References\)](#)
- [NSR 24386/TV 24413 \(Update Fugitive Conditions\)](#)
- [NSR 24644/TV 24828 \(S-21 Ultra-Low NOx Burner replacement\)](#)
- [NSR 24656/TV 24791 \(Consolidation of Low Pressure Fuel Gas Conditions\)](#)
- [NSR 24450/TV 24460 \(Reduction of Source Test Frequency \[S-1030, S-1031, S-1059, S-1060\]\)](#)
- [NSR 24944/TV 24955 \(S-101 Throughput Limit\)](#)

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

XI. Glossary

CEC

California Energy Commission

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. NO_x 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)

XI. Glossary

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

DWT

Dead Weight Ton

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific 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.

XI. Glossary

FR

Federal Register

FRT

Floating Roof Tank (See EFRT and IFRT)

GDF

Gasoline Dispensing Facility

GLM

Ground Level Monitor

grains

1/7000 of a pound

Graphitic

Made of graphite.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63.

H₂S

Hydrogen Sulfide

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.

XI. Glossary

ISOM

Isomerization plant

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Lighter

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

Long ton

2200 pounds

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of 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

XI. Glossary

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO_x

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the 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

XI. Glossary

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 sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RFG

Refinery Fuel Gas

RMG

Refinery Make Gas

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

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

XI. Glossary

SO2 Bubble

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

SO3

Sulfur trioxide

Start-up

For reporting purposes only, a start-up shall be defined as any of the following; the removal of boundary blinds, first fire to a furnace, or the introduction of process feed to a unit. A start-up only occurs following a shutdown unless it involves a newly constructed process unit.

Shutdown

For reporting purposes only, a shutdown shall be defined as any of the following; there is no process feed to a unit, no furnace fires, or the boundary blinds are installed.

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

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

XI. Glossary

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
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

XI. Glossary

Symbols:

$<$	=	less than
$>$	=	greater than
\leq	=	less than or equal to
\geq	=	greater than or equal to

XII. INDEX

This index is by source number, listed in “software” order.

S

S-1 26, 31, 68, 487, 490, 492, 527, 539, 588, 602

S-100 40, 776

S-1002 33, 284

S-1003 16, 17, 33, 284, 504, 581

S-1004 33, 231, 284, 488, 528, 701

S-1005 33, 285

S-1006 33, 236, 285, 290, 487, 702

S-1007 30, 34, 236, 285, 487, 488, 497, 503, 505, 509, 526, 581, 582, 587, 613, 684, 703, 704, 705, 706, 708

S-1008 34, 285

S-1009 34, 285

S-101 787

S-1010 34, 237, 242, 285, 488, 521, 704, 708

S-1011 35, 285, 503, 505, 581, 582

S-1012 35, 238, 286, 488, 526, 613, 684, 704, 705, 706, 708

S-1013 35, 409, 782

S-1014 35, 238, 286, 488, 505, 526, 582, 613, 684, 704, 705, 706, 708

S-1019 42

S-1020 35, 286, 502, 503, 505, 580, 581, 582

S-1021 35, 286, 502, 503, 580, 581

S-1022 35, 286, 502, 503, 580, 581

S-1023 35, 287, 502, 503, 580, 581

S-1024 36, 238, 287, 498, 500, 502, 503, 505, 580, 581, 582, 705

S-1026 36, 287, 502, 503, 505, 580, 581, 582

S-1027 36, 221, 291, 488, 525, 692

S-1030 36, 188, 192, 199, 288, 529, 530, 531, 532, 533, 534, 535, 536, 665, 668, 828

S-1031 36, 192, 194, 199, 288, 529, 530, 531, 532, 533, 534, 535, 536, 670, 672, 828

S-1032 530, 531, 535, 828

S-1033 530, 531, 532, 534, 535

S-104 785

S-105 424, 787

S-106 776

S-1063 243, 708

S-107 40, 776

S-108 399, 777

S-109 40, 776

S-110 399

S-111 776

XII. Index

<u>S-112</u>	23, 432, 789
<u>S-113</u>	23, 403, 779
<u>S-114</u>	23, 403, 779
<u>S-115</u>	23, 403, 779
<u>S-116</u>	40, 776
<u>S-117</u>	23, 403, 779
<u>S-118</u>	40, 776
<u>S-119</u>	40, 776
<u>S-120</u>	24, 403, 779
<u>S-121</u>	40, 783
<u>S-122</u>	24, 403, 779
<u>S-123</u>	40, 779
<u>S-124</u>	24, 384, 770
<u>S-127</u>	40, 243, 708
<u>S-129</u>	24, 247, 283, 487, 495, 712
<u>S-131</u>	24, 29
<u>S-132</u>	24
<u>S-133</u>	24, 387, 487, 497, 772, 773
<u>S-134</u>	24
<u>S-140</u>	41, 397, 776
<u>S-142</u>	41, 412, 783
<u>S-143</u>	24
<u>S-145</u>	41, 397, 776
<u>S-150</u>	24, 272, 512, 729
<u>S-151</u>	24, 252, 503, 505, 581, 582, 715
<u>S-154</u>	25, 27, 255, 716
<u>S-155</u>	25, 255, 716
<u>S-156</u>	25, 254, 715
<u>S-157</u>	26, 226, 694
<u>S-158</u>	26, 406, 487, 498, 501, 780
<u>S-159</u>	26, 227, 540, 589, 695
<u>S-160</u>	26, 228, 696
<u>S-161</u>	26, 256, 717
<u>S-163</u>	26, 343, 756
<u>S-165</u>	27, 244, 710
<u>S-167</u>	27, 540, 589, 698
<u>S-168</u>	27, 540, 589, 698
<u>S-169</u>	27, 255, 716
<u>S-171</u>	41
<u>S-173</u>	27, 165, 487, 494, 536, 539, 588, 656
<u>S-174</u>	28, 216, 688

XII. Index

<u>S-175</u>	28, 216, 487, 494, 688
<u>S-176</u>	28, 75, 82, 83, 214, 215, 216, 217, 218, 220, 221, 487, 496, 538, 539, 587, 588, 689
<u>S-180</u>	41, 403
<u>S-185</u>	41, 412, 783
<u>S-188</u>	28, 258, 283, 487, 496, 537, 718
<u>S-189</u>	28, 265, 283, 487, 496, 537, 723
<u>S-192</u>	41, 271, 728
<u>S-193</u>	28, 440, 447, 455, 475, 485, 488, 516, 792
<u>S-194</u>	28, 261, 264, 270, 512, 720
<u>S-195</u>	28, 261, 264, 270, 512, 720
<u>S-196</u>	28, 440, 447, 455, 475, 485, 488, 516, 792
<u>S-197</u>	29, 264, 267, 270, 512, 724
<u>S-198</u>	29, 264, 267, 270, 512, 724
<u>S-199</u>	29, 276, 733
<u>S-2</u>	76, 487, 490, 492, 539, 588, 604
<u>S-200</u>	29
<u>S-201</u>	41, 222, 283, 488, 519, 692
<u>S-202</u>	29, 222, 224, 284, 488, 519, 692
<u>S-205</u>	29, 447, 448, 455, 475, 485, 488, 516, 796
<u>S-206</u>	29, 447, 448, 455, 475, 485, 488, 516, 796
<u>S-207</u>	19, 29, 37, 352, 487, 510, 758, 760
<u>S-208</u>	30, 456, 487, 497, 801
<u>S-209</u>	30, 218, 284, 487, 498, 690
<u>S-210</u>	30, 372, 379, 487, 498, 499, 764, 767
<u>S-211</u>	30, 239, 284, 487, 498, 706
<u>S-214</u>	41, 255, 716
<u>S-215</u>	41, 255, 716
<u>S-217</u>	41, 728
<u>S-218</u>	41, 728
<u>S-219</u>	42, 728
<u>S-220</u>	30, 132, 170, 502, 503, 505, 506, 507, 529, 536, 537, 540, 580, 581, 582, 583, 584, 585, 589, 658, 827
<u>S-227</u>	30, 289, 290, 391, 396, 502, 503, 505, 508, 509, 580, 581, 582, 586, 774
<u>S-230</u>	42, 413, 783
<u>S-231</u>	42, 415, 784
<u>S-232</u>	30, 219, 488, 519, 520, 690
<u>S-233</u>	31, 75, 82, 83, 214, 215, 216, 217, 220, 221, 488, 519, 520, 538, 539, 588, 691
<u>S-235</u>	779
<u>S-236</u>	31, 415, 784
<u>S-237</u>	31, 131, 133, 149, 176, 177, 178, 488, 505, 521, 522, 523, 524, 525, 529, 538, 583, 661, 676

XII. Index

<u>S-238</u>	<u>42, 255, 716</u>
<u>S-239</u>	<u>31, 231, 488, 527, 701</u>
<u>S-241</u>	<u>32, 184, 663</u>
<u>S-242</u>	<u>32, 184, 663</u>
<u>S-243</u>	<u>32, 201, 207, 675, 679</u>
<u>S-252</u>	<u>33, 184, 663</u>
<u>S-3</u>	<u>45, 487, 511, 538, 588</u>
<u>S-32000</u>	<u>42</u>
<u>S-32100</u>	<u>42</u>
<u>S-32101</u>	<u>42</u>
<u>S-32102</u>	<u>43</u>
<u>S-32103</u>	<u>43</u>
<u>S-32104</u>	<u>43</u>
<u>S-32105</u>	<u>43</u>
<u>S-32110</u>	<u>43</u>
<u>S-4</u>	<u>45, 83, 87, 487, 511, 607, 611</u>
<u>S-5</u>	<u>90, 538, 539, 616</u>
<u>S-6</u>	<u>100, 538, 539, 620</u>
<u>S-7</u>	<u>536</u>
<u>S-9</u>	<u>283</u>