

Bay Area Air Quality Management District

~~939 Ellis Street~~ 375 Beale Street, 600

San Francisco, CA 94105

(415) ~~749-5000~~ ~~771-6000~~

~~Final~~ Draft Proposed
~~Revision 3~~ Renewal

MAJOR FACILITY REVIEW PERMIT

Issued To:

**Valero Benicia Asphalt Plant
Facility #A0901**

Facility Address:

3001 Park Road
Benicia, CA 94510

Mailing Address:

3400 East Second Street
Benicia, CA 94510

Responsible Official

~~Donald C. Wilson~~ Joshua Tulino ~~John Hill~~, Kimberly A. Ronan ~~Donald W. Cuffel~~,
____ Vice President and General Manager Environmental Engineering Manager

(707) 745-7011

Facility Contact

(707) 745-~~7990~~ 7545

Type of Facility:	Asphalt Refinery	BAAQMD Engineering Division <u>Contact:</u>
Primary SIC:	2911	<u>Contact:</u> Thu Bui
Product:	Asphalt	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jeff McKay for Jack P. Broadbent

April 30, 2013

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

Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 5/4/11);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 6/28/993/4/09);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 7/19/0612/196/20172, effective 8/31/2016);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 1/26/998/1/2016);

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

(as amended by the District Board on 6/15/0512/196/20127, effective 8/31/2016);

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

(as approved by EPA through 1/26/998/1/2016);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/21/0412/196/127);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 12/264/992017);

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

(as ~~adopted~~amended by the District Board on 6/15/0512/76/20167);

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

(as amended by the District Board on 4/16/03); and

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

(as approved by EPA on 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, 2010.** If the permit renewal has not been issued **December 19, 2010**, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4..2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt

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- 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 that 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 of whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including

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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 that 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 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 [by e-mail to r9.aeo@epa.gov](mailto:r9.aeo@epa.gov) or [postal mail](#) to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
~~939-Ellis Street~~ [375 Beale Street, Suite 600](#)
San Francisco, CA [9410594109](#)
Attn: Title V Reports

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The 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

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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 by e-mail to AEO R9@epa.gov ~~9.aeo@epa.gov~~ or postal mail 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

Director
Enforcement Division, TRI & Air Section (ENF-2-1)
USEPA Region 9
75 Hawthorne Street
San Francisco, California 94105

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

H. Emergency Provisions

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

I. Severability

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

J. Miscellaneous Conditions

1. In Table II-A, for each source with a capacity identified as a firm limit, the maximum

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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)

- *3. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled start-up or shutdown of any process unit and- ~~The owner/operator shall notify the District in writing by fax or email~~ as soon as feasible for any unscheduled startup or shutdown of any process unit, but no later than 48 hours after the unscheduled event or within the next normal business day. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. This requirement is not federally enforceable. (Regulation 2-1-403)
4. Where an applicable requirement allows multiple compliance options and where more than one such option is incorporated into the permit, the permit holder must maintain records indicating the selected compliance option. Such records at a minimum shall indicate when any change in options has occurred. In addition, the annual compliance certification must specifically indicate which option or options were selected during the certification period. This is in addition to any recordkeeping and reporting contained in the requirement itself.
5. Reserved.
6. Reserved.

K. Accidental Release

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

II. EQUIPMENT

Table II-A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S#	Description	Make or Type	Model	Capacity
1	Crude Storage Tank, TK4601A (S1, S2, S4, S23 Crude Storage Tanks owned by Facility B5574			
2	Crude Storage Tank, TK4601B (S1, S2, S4, S23 Crude Storage Tanks owned by Facility B5574			
3	Gas Oil Storage Tank, TK-4601C	Fixed Roof		3,414,600 3,419,000 gal
4	Crude Oil Storage Tank, TK-4610A (S1, S2, S4, S23 Crude Storage Tanks owned by Facility B5574			
5	Asphalt Storage Tank, TK-4602A	Fixed Roof		3,415,000 gal
6	Asphalt Storage Tank, TK-4602B	Fixed Roof		3,415,000 gal
7	Asphalt Storage Tank, TK-4603	Fixed Roof		1,050,000 gal
8	Asphalt Storage Tank, TK-4604	Fixed Roof		1,050,000 gal
9	Naphtha Storage Tank, TK-4607	Internal Floating Roof		571,200 gal
12	Untreated Wastewater Tank, TK-4606	Fixed Roof		571,000 gal capacity; 87,249,600 gallons/year combined with S28, based on 166 gpm discharge pump rate (New Source Review, Condition # 1240 Part 98)
13	Kerosene Tank, TK-4608	Fixed Roof		88,000 gal
16	Truck Loading Racks - Heavy Vacuum Gas Oil			1 pump, 2 nozzles
17	Truck Loading Racks -- Asphalt, <u>Racks 1, 2, 3, and 4</u>			8 pumps, 3 -4 nozzles
18	Crude Unit including atmospheric tower, vacuum tower, and KD stripper tower			18,000 barrels/day
19	Vacuum Heater F-4601 (natural gas)			40 MMbtu/hr (new source review, Condition # 1240 Part I.5a)
20	Steam Boiler H-4602A (natural gas)			14.7 MMbtu/hr
21	Steam Boiler H-4602B (natural gas)			14.7 MMbtu/hr
23	Crude Storage Tank, TK-4610B (S1, S2, S4, S23 Crude Storage Tanks owned by Facility B5574)			
24	Hot Oil Heater, H-4603 (natural gas)			9 MMbtu/hr
26	Untreated Wastewater Tank, TK-4613	Fixed Roof		3,800 gal capacity;

II. Equipment~~III. Generally Applicable Requirements~~

Table II-A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S#	Description	Make or Type	Model	Capacity
				87,249,600 gallons/year based on 166 gpm discharge pump rate (New Source Review, Condition # 1240 Part 97)
28	Untreated Wastewater Tank, TK-4611B	Fixed Roof		88,000 gal capacity; 87,249,600 gallons/year combined with S12, based on 166 gpm discharge pump rate (New Source Review, Condition # 1240 Part 98)
31	Rail Car Asphalt and Gas Oil Loading Rack, # Five Spots			4 5 nozzles
34	Tank Heater, H-4605 (natural gas)			5.9 MMbtu/hr
37	Rubberized Asphalt Sales Tank, TK-4654	Fixed Roof		100,000 gal
38	Rubberized Asphalt Sales Tank, TK-4655	Fixed Roof		100,000 gal
51	Sales Tank – Asphalt Liquid, TK-46506	Fixed Roof		152,880 gal
52	Sales Tank – Asphalt Liquid, TK-46507	Fixed Roof		152,880 gal
53	Sales Tank – Asphalt Liquid, TK-46508	Fixed Roof		152,880 gal
54	Truck Asphalt Loading Rack, # 7			3 pumps, 2 4 nozzles
59	Gas Oil Fixed Roof Storage Tank, TK-4605, OOS	Fixed Roof		1,050,000 gal
60	Asphalt Tank TK-46505	Fixed Roof		15,000 gal
61	Asphalt Tank, TK-4630A	Fixed Roof		995,400 gal
62	Asphalt Tank, TK-4630B	Fixed Roof		995,400 gal
63	KERO/LVGO/HVGO/Asphalt Tank, TK-4631	Fixed Roof		1,218,000 gal
65	Asphalt Tank, TK-4632	Fixed Roof		6,920,000 gal
67	Untreated Wastewater Tank, TK-4612B	Fixed Roof		5,900 gal capacity; 87,249,600 gallons/year based on 166 gpm discharge pump rate (New Source Review, Condition # 1240 Part 99)
68	Emergency Diesel-powered Firewater Pump (P-4645)			215 hp, 34 hours/yr (New Source Review, Condition # 22851, Part1)
69	Asphalt Additive Loading Bin	Open Top		96 cubic feet, 20,000 ton/yr

II. Equipment~~III. Generally Applicable Requirements~~

Table II-A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S#	Description	Make or Type	Model	Capacity
				Additives (New Source Review, Condition # 20278, Part 2)
70	Asphalt Additive Mixing Tank, TK-46500	Fixed Roof		2,200 gal, 400,000 tons/yr (New Source Review, Condition # 20278, Part 1)
71	Emergency Diesel Air Compressor	Caterpillar	3054C	108 BHP, 50 hrs/yr (New Source Review, Condition # 22928, part 1)

II. Equipment ~~III. Generally Applicable Requirements~~

Table II-B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A1	Koch Mist Eliminator (FIL-4608)	S5-S8, S12 S59	None	None	None
A2	Mist Eliminator (FIL-4609)	S17	None	None	None
A3	Mist Eliminator (FIL-4610)	S3, S5-S8, S12, S13, S37, S38, S51-S54, S59, S60-S63, S65, S70	None	None	None
A6	Mist Eliminator (FIL-4603)	S31	None	None	None
A17	Asphalt <u>Truck</u> Loading Rack Incinerator (H-46100) (2.9 MMBtu/hr)	S17	Regulation 6-1-301 SIP 6-301	Temperature	Ringelmann 1 for < 3 minutes/hr
<u>A17</u>	<u>Asphalt Truck Loading Rack Incinerator (H-46100) (2.9 MMBtu/hr)</u>	<u>S17</u>	<u>Regulation 6-1-302</u>	<u>Temperature</u>	<u>20% opacity for < 3 minutes/hr</u>
A17	Asphalt <u>Truck</u> Loading Rack Incinerator (H-46100) (2.9 MMBtu/hr)	S17	Regulation 6-1-310 SIP 6-310	Temperature	0.15 gr/dscf
A17	Asphalt <u>Truck</u> Loading Rack Incinerator (H-46100) (2.9 MMBtu/hr)	S17, A2	BAAQMD Condition #1240, Part I.14	Temperature	Emissions of NMHC < 42.705 tons per year
A17	Asphalt Loading Rack Incinerator (2.9 MMBtu/hr)	S18	BAAQMD Condition 1240, Part II.6 and 40 CFR, Part 60.482-10(c) Deleted upon startup of the atmospheric PRD removal project (A/N 19193)	Temperature	95% destruction
A17	Asphalt Loading Rack Incinerator (H-46100) (2.9 MMBtu/hr)	S17	BAAQMD Condition #1240, Part II.68	Temperature	98.5% destruction
A20	Mist Eliminator FIL-46500	S3, S13, S37, S38, S51-S53, S54, S60-S63, S65, S70	None	None	None
A31	Thermal Oxidizer (H-4607) (3.5 MMBtu/hr)	S5-S8, S31, S37, S38, S51-S54, S60-S62, S65, S70	BAAQMD 6-1-301 SIP 6-301	Temperature	Ringelmann 1 for < 3 minutes/hr
<u>A31</u>	<u>Thermal Oxidizer (H-</u>	<u>S5-S8, S31, S37, S38, S51-</u>	<u>BAAQMD</u>	<u>Temperature</u>	<u>20% opacity for <</u>

II. Equipment ~~III. Generally Applicable Requirements~~

Table II-B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
	<u>4607</u> (3.5 MMbtu/hr)	<u>S54, S60-S62, S65, S70</u>	<u>6-1-302</u>		<u>3 minutes/hr</u>
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S5-S8, S31, S37, S38, S51-S54, S60-S62, S65, S70	BAAQMD 6-1-310 SIP 6-310	temperature	0.15 gr/dscf
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S12, S13, S26, S28, S59, S63, S67	BAAQMD, 8-5-306 SIP 8-5-306	Temperature	95% control of VOC
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S31	BAAQMD 8-6-301	Temperature	0.17 pounds organic compounds per 1,000 gallons
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S13, S59, S63	40 CFR, Part 60.112b(a)(3)(ii)	Temperature	95% control of inlet VOC
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S5-S8, S37, S38, S51-S53, S60, S61, S62, S65, S70	40 CFR, Part 60.472(c)	Temperature	0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S3, S5-S8, S12, S13, , S26, S28, S31, S37, S38, S51-S54, S59, S60-S63, S65, S67, S70, A1, A3, A6, A20	BAAQMD Condition 1240, Part I.14	Temperature	Emissions of NMHC < 42.705 tons per year
A31	Thermal Oxidizer (<u>H-4607</u>) (3.5 MMbtu/hr)	S3, S5, S6, S7, S8, S12, S13, S26, S28, S31, S37, S38, S51, S52, S53, S54, S59, S60, S61, S62, S63, S65, S67, S70	BAAQMD Condition 1240, Part II.32a	Temperature	98.5% control of inlet VOC by weight
S24	Hot Oil Heater (<u>H-4603</u>)	S5-S8, S31, S37, S38, S51-S54, S60-S62, S65, S70	BAAQMD 6-1-301 SIP 6-301	Temperature	Ringelmann 1 for < 3 minutes/hr
<u>S24</u>	<u>Hot Oil Heater (H-4603)</u>	<u>S5-S8, S31, S37, S38, S51-S54, S60-S62, S65, S70</u>	<u>BAAQMD</u> <u>6-1-302</u>	<u>Temperature</u>	<u>20% opacity for < 3 minutes/hr</u>
S24	Hot Oil Heater (<u>H-4603</u>)	S5-S8, S31, S37, S38, S51-S54, S60-S62, S65, S70	BAAQMD 6-1-310 SIP 6-310	temperature	0.15 gr/dscf
S24	Hot Oil Heater (<u>H-4603</u>)	S12, S13, S28, S26, S59, S63, S67	BAAQMD 8-5-306	Temperature	95% control of VOC

II. Equipment ~~III. Generally Applicable Requirements~~

Table II-B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			SIP 8-5-306		
S24	Hot Oil Heater (H-4603)	S31	BAAQMD 8-6-301	Temperature	0.17 pounds organic compounds per 1,000 gallons
S24	Hot Oil Heater (H-4603)	S13, S59, S63	40 CFR, Part 60.112b(a) (3)(ii)	Temperature	95% control of inlet VOC
S24	Hot Oil Heater (H-4603)	S5-S8, S37, S38, S51-S53, S60, S61, S62, S65, S70	40 CFR, Part 60.472(c)	Temperature	0 percent opacity except for one consecutive 15- min period in any 24-hr period for cleaning
S24	Hot Oil Heater (H-4603)	S3, S5-S8, S12, S13, S26, S28, S31, S37, S38, S51- S54, S59, S60-S62, S63, S65, S67, S70, A1, A3, A6, A20	BAAQMD Condition 1240, Part I.14	temperature	Emissions of NMHC < 42.705 tons per year
S24	Hot Oil Heater (H-4603)	S3, S5, S6, S7, S8, S12, S13, S26, S28, S37, S38, S51, S52, S53, S54, S59, S60, S61, S62, S63, S65, S67, S70	BAAQMD Condition 1240, Part II.32a	Temperature	98.5% control of inlet VOC by weight
A71	Catalyzed Diesel Particulate Filter	S71	BAAQMD Condition 22928, Part 2	None	None

II. Equipment~~III. Generally Applicable Requirements~~

Table II C - 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
NA	TK-4609, Spent Caustic	Fixed Roof		51618 gal	Exempt (Regulation 2-1-123.2)
NA	TK-4618, Nalco EC-1005A	Fixed Roof		330 gal	Exempt (Regulation 2-1-123.2)
NA	TK-4666, NALCO EC-2425A	Fixed Roof		400 gal	Exempt (Regulation 2-1-123.2)
NA	TK-4673, Liquid Anti-strip AD-HERE LOF 65-00	Fixed Roof		260 gal	Exempt (Regulation 2-1-123.3.2 IBP)
NA	Tank Heater, FH-4608, Natural gas fired	Vertical Fluid Heater	HTE-10	9.5 MMBtu/hr	Exempt (Regulation 2-1-114.1.2)
S32100	Fugitive sources – Vacuum Producing Systems	NA	NA	NA	Exempt
S32101	Fugitive sources – Process Vessel Depressurization	NA	NA	NA	Exempt
S32102	Fugitive sources – Valves and Flanges	NA	NA	NA	Exempt
S32103	Fugitive sources – Pumps & Compressor Seals	NA	NA	NA	Exempt
S32104	Fugitive sources – Pressure Relief Valves	NA	NA	NA	Exempt
S32105	Fugitive sources – Process Drains	NA	NA	NA	Exempt

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is:
<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>.

NOTE:

There are differences between the current BAAQMD rules and the version 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.

Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (05/04/2011)	N
SIP Regulation 1	General Provisions and Definitions (06/28/1999 03/04/2009)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (03/04/2009 12/196/20127)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/9908 01/2016)	Y
<u>BAAQMD · Regulation 2 · Rule 4</u>	<u>Permits, Emissions Banking (12/06/2017)</u>	<u>N</u>
<u>SIP Regulation 2 · Rule 4</u>	<u>Permits, Emissions Banking (12/04/2017)</u>	<u>Y</u>

III. GENERALLY APPLICABLE REQUIREMENTS

~~III. Generally Applicable Requirements~~

Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD · Regulation 2 · Rule 5	New Source Review of Toxic Air Contaminants (6/15/05 12/0706/20167)	N
BAAQMD · Regulation 2 · Rule 9	Permits, Interchangeable Emission Reduction Credits (6/15/05)	N
BAAQMD · Regulation 3	Fees (6/6/07 06/21/201706/06/2018)	N
SIP · Regulation 3	Fees (5/3/84)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02 06/19/2013)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
<u>BAAQMD Regulation 6</u>	<u>Particulate Matter, Common Definitions and Test Methods (8/1/2018)</u>	<u>N</u>
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (8/1/2018 12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations 7/20/05)	N
SIP BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01 07/01/2009)	Y
<u>SIP Regulation 8, Rule 3</u>	<u>Organic Compounds - Architectural Coatings (01/02/2004)</u>	<u>Y</u>
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	<u>N</u>
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and	<u>Y</u>

III. GENERALLY APPLICABLE REQUIREMENTS

~~III. Generally Applicable Requirements~~

Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
	Removal of Underground Storage Tanks (4/19/01)	
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05)	<u>N</u>
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	<u>Y</u>
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
<u>BAAQMD Regulation 11, Rule 18</u>	<u>Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17)</u>	<u>N</u>
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
<u>BAAQMD Regulation 12, Rule 15</u>	<u>Petroleum Refining Emissions Tracking (4/20/16)</u>	<u>N</u>
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
<u>California Health and Safety Code Title 17, Section 93115</u>	<u>Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/2011)</u>	<u>N</u>
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 <u>(02/19/2011)</u>	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos <u>(07/20/2004/19/95)</u>	Y
40 CFR, Part 82, Subpart F	Protection of Stratospheric Ozone; Recycling and	

III. GENERALLY APPLICABLE REQUIREMENTS

~~III. Generally Applicable Requirements~~

Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
	Emissions Reduction (<u>04/10/2015, 2/21/95</u>)	
40 CFR, Part 82.156	Leak Repair	Y
40 CFR, Part 82.161	Certification of Technicians	Y
40 CFR, Part 82.166	Records of Refrigerant	Y
40 CFR, Part 82, Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (3/5/98)	
40 CFR, Part 82.270(b)	Prohibitions, Halon	Y
<u>BAAQMD Permit Condition 26298, Part 1</u>	<u>Prohibition, Burning of Fuel Oil in Heaters and Boilers (2-1-403)</u>	<u>Y</u>

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 1 BAAQMD · Regulation 1	General Provisions and Definitions (05/04/2011)		
1-301	Public Nuisance Prohibition	N	
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 (7/19/0612/1906/20127)		
2-1-429	Federal Emissions Statement	N	
BAAQMD	Organic Compounds, Storage of Organic Liquids (10/18/2006)		

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 8, Rule 5			
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 <u>facility</u> 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	Y	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	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	
8-5-502.2	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,	Storage of Organic Liquids (6/5/2003)		

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 5			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks >75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks >75 cubic meters. Approved Emission Control system	Y	
8-5-404	Certification	Y	
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 (9/15/2004)		
8-8-112	Exemption, Wastewater Critical Organic Compound Concentration or Temperature	N	
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
8-8-116	Limited Exemption, Oil-Water Separation Trenches	N	
8-8-304	Sludge Dewatering Unit	N	
8-8-308	Junction Box	Y	
8-8-312	Controlled Wastewater Collection System Components at Petroleum Refineries : Maintain controlled sources vapor tight except during inspection, maintenance, repair, or sampling	N	
8-8-313	Uncontrolled Wastewater Collection System Components at Petroleum Refineries : Comply with 8-8-313.1 or 8-8-313.2 for uncontrolled sources	N	
8-8-313.2	Uncontrolled Wastewater Collection System Components at Petroleum Refineries : Inspection and Maintenance Plan Option	N	
8-8-314	New Wastewater Collection System Components at Petroleum Refineries ; equip new components with water seal or equivalent control	N	
8-8-402	Wastewater Inspection and Maintenance Plans at Petroleum Refineries	N	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-8-601	Wastewater Analysis for Critical OCs	Y	
8-8-603	Inspection Procedures	N	
SIP Regulation 8, Rule 8	Wastewater (Oil-Water) Separators (8/29/1994)		
8-8-112	Exemption, Wastewater Critical OC Concentration or Temperature	Y	
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
8-8-304	Sludge Dewatering Unit	Y	
8-8-502	Wastewater Critical OC Concentration and/or Temperature Records	Y	
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (1/21/04)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	N	
8-10-302	Opening of Process Vessels	N	
8-10-401	Reporting	N	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-501	Monitoring	N	
8-10-502	Concentration Measurement	N	
8-10-503	Records	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Regulation 8, Rule 28	Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (12/21/05)		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
SIP Regulation 8, Rule 28	Episodic Releases from Pressure Relief Devices at Petroleum Refineries and Chemical Plants (5/24/04)		
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	Y	
<u>BAAQMD Regulation 8 Rule 53</u>	<u>Organic Compounds, Vacuum Truck Operations (04/18/2012)</u>		
<u>8-53-102.1</u>	<u>Applicability for Petroleum refineries</u>	<u>N</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-53-103	Exemption, Emergences	<u>N</u>	
8-53-104	Limited Exemption, Positive Displacement Pump or Gravity Loading	<u>N</u>	
8-53-105	Exemption, Secondary Treatment Processes	<u>N</u>	
8-53-301.1	Emission Limit: TOC concentration cannot exceed 500 ppmv if an auxiliary control device is used; or	<u>N</u>	
8-53-301.2	Emission Limit: TOC emissions are controlled with an abatement device of at least 95 percent	<u>N</u>	
8-53-302	Liquid Leaks: Cannot exceed a rate in excess of three drops per minute	<u>N</u>	
8-53-303	Vapor Leaks: Cannot exceed 500 ppmv	<u>N</u>	
8-53-304	Unloading of Regulated Material: Materials must be either unloaded into a tank, vessel or sump that meets the requirements of Reg 8, Rule 5 or Reg 8, Rule 8 or into a non-compliance tank, vessel, or sump using a submerged fill pipe that meets requirements of Reg 8, Rule 5	<u>N</u>	
8-53-401	Loading Event Schedule Reporting Requirements	<u>N</u>	
8-53-501	Emissions Monitoring Requirements	<u>N</u>	
8-53-501.1	To demonstrate compliance with 8-53-301.1 when using a control device other than a carbon adsorption system, measure emission concentrations at specified intervals and record information specified by 8-53-502	<u>N</u>	
8-53-501.2	To demonstrate compliance with 8-53-301.1 when using a carbon abatement system, use method specified by 8-53-601 at specified intervals and record information specified by 8-53-502	<u>N</u>	
8-53-502	Recordkeeping Requirements	<u>N</u>	
8-53-601	Measurement of TOC Concentrations	<u>N</u>	
8-53-602	Analysis of Materials, True Vapor Pressure	<u>N</u>	
8-53-603	Analysis of Materials, Percent Water Volume	<u>N</u>	
8-53-604	Determination of Abatement Efficiency	<u>N</u>	
BAAQMD · Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/95)		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-313	Sulfur Removal Operations at Petroleum Refineries	N	
9-1-313.2	Sulfur Removal and Recovery System	N	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (6/8/99)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries	Y	
9-1-313.2	Sulfur Removal and Recovery System	Y	
BAAQMD · Regulation 9, Rule 2	Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/6/99)		
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	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-1	40 CFR, Part 60 Subpart A	Y	
10-17	40 CFR, Part 60 Subpart Kb	Y	
BAAQMD · Regulation 11 · Rule 12	NESHAPS Incorporation by Reference, 40 CFR, Part 61 Subpart FF Benzene Waste (01/05/1994)	Y	
BAAQMD Manual of Procedures, Volume VI	Air Monitoring Procedures (7/20/94)	N	
SIP Manual of Procedures, Volume VI	Air Monitoring Procedures (5/3/84)	Y	
60 Subpart A	New Source Performance Standards (NSPS) General Provisions (06/30/2016/13/2010)		

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	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	
<u>NSPS Title 40 CFR Part 60 Subpart J</u>	<u>NSPS Subpart J for Petroleum Refineries (12/01/2015)</u>		
<u>60.100(a)</u>	<u>Applicability: Fuel Gas Combustion Devices</u>	<u>Y</u>	
<u>60.100(b)</u>	<u>Applicability: Constructed/reconstructed after 6/11/1973 and before May 14, 2007 (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.104</u>	<u>Standards for Sulfur Oxides</u>	<u>Y</u>	
<u>60.104(a)(1)</u>	<u>Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)</u>	<u>Y</u>	
<u>60.105</u>	<u>Monitoring of Emissions and Operations</u>	<u>Y</u>	
<u>60.105(a)</u>	<u>Continuous Monitoring Systems Requirements</u>	<u>Y</u>	
<u>60.105(a)(4)</u>	<u>Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.105(e)</u>	<u>Determine and report periods of excess emissions.</u>	<u>Y</u>	
<u>60.105(e)(3)(ii)</u>	<u>Excess SO2 emission definitions for 60.7(c)</u>	<u>Y</u>	
<u>60.106(a)</u>	<u>Test Methods and Procedures</u>	<u>Y</u>	
<u>60.106(e)(1)</u>	<u>Methods to determine compliance with the H2S standard in</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>60.104(a)(1). (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>		
<u>60.107(f)</u>	<u>Semi-annual compliance report</u>	<u>Y</u>	
<u>60.107(g)</u>	<u>Certification of 60.107(f) report</u>	<u>Y</u>	
<u>NSPS Title 40 CFR Part 60 Subpart Ja</u>	<u>Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 (07/13/2016)</u>		
<u>60.100a</u>	<u>Applicability</u>	<u>Y</u>	
<u>60.100a(a)</u>	<u>Applicability: FCCUs, FCUs, delayed coking units, fuel gas combustion devices (including process heaters), flares, and sulfur recovery plants</u>	<u>Y</u>	
<u>60.100a(b)</u>	<u>Applicability: Fuel gas combustion devices which commenced construction, modification, or reconstruction after May 14, 2007 (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.100a(c)</u>	<u>The provisions in 60.14 regarding modification apply</u>	<u>Y</u>	
<u>60.100a(d)</u>	<u>Definition of 'fixed capital cost of the new components' per 60.15</u>	<u>Y</u>	
<u>60.102a</u>	<u>Emissions Limitations</u>	<u>Y</u>	
<u>60.102a(a)</u>	<u>Comply with emission limitations on and after date of initial performance test, but no later than 60 days after achieving maximum production rate or 180 days after initial startup, whichever comes first</u>	<u>Y</u>	
<u>60.102a(g)</u>	<u>Comply with emission limitations in 60.102a(g)(1) and (2)</u>	<u>Y</u>	
<u>60.102a(g)(1)</u>	<u>Comply with either the emission limit in 60.102a(g)(1)(i) or the fuel gas concentration limit in 60.102a(g)(1)(ii)</u>	<u>Y</u>	
<u>60.102a(g)(1)(ii)</u>	<u>Fuel gas H2S concentration limited to 162 ppmv on a 3-hour rolling average basis and 60 ppmv determined daily on a 365-successive calendar day rolling average basis</u>	<u>Y</u>	
<u>60.104a</u>	<u>Performance Tests</u>	<u>Y</u>	
<u>60.104a(a)</u>	<u>Conduct a performance test for each fuel gas combustion device to demonstrate initial compliance. Notification requirements apply to the initial performance test and subsequent tests. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.104a(c)</u>	<u>Conduct performance test using the test method in 40 CFR 60, Appendices A-1 through A-8 or other specified methods. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	

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 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>60.104a(i)</u>	<u>Determine compliance with the H2S emission limit in 60.102a(g)(1) for fuel gas combustion device according to the specified test methods and procedures. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.107a</u>	<u>Monitoring of emissions and operations for fuel gas combustion devices and flares</u>	<u>Y</u>	
<u>60.107a(a)</u>	<u>Comply with monitoring requirement in 60.107a(a)(2) for demonstration of compliance with H2S concentration limits in 60.102a(g)(1)(ii)</u>	<u>Y</u>	
<u>60.107a(a)(2)</u>	<u>Install, operate, calibrate and maintain a CEMS to monitor and record H2S concentration by volume (dry basis) in fuel gas prior to being burned. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.107a(a)(2)(i)</u>	<u>Install each H2S monitor according to Performance Specification 7 of Appendix B to part 60. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.107a(a)(2)(ii)</u>	<u>Conduct performance evaluation for H2S CEMS according to 60.13(c) and Performance Specification 7 of Appendix B to part 60. use Method 11, 15, or 15A of Appendix A-5 or Method 15 of Appendix A-6 for relative accuracy evaluations. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.107a(a)(2)(iii)</u>	<u>Comply with the applicable quality assurance procedures of Appendix F to part 60. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.108a(a)</u>	<u>For sources subject to the emissions limitations in 60.102a, comply with the notification, recordkeeping, and reporting requirements in 60.7 and other specified requirements</u>	<u>Y</u>	
<u>60.108a(b)</u>	<u>Notify the Administration of the specific monitoring provisions for which the owner or operator intends to comply. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Y</u>	
<u>60.108a(d)</u>	<u>Submit an excess emissions report for all periods of excess emissions per requirements of 60.7(c), except that the report shall contain the following information:</u>	<u>Y</u>	
<u>60.108a(d)(1)</u>	<u>-- The date that the exceedance occurred;</u>	<u>Y</u>	

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**Table IV - A
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.108a(d)(2)	-- An explanation of the exceedance;	Y	
60.108a(d)(3)	-- Whether the exceedance was concurrent with a startup, shutdown, or malfunction of an affected facility or control system; and	Y	
60.108a(d)(4)	-- A description of the action taken, if any.	Y	
60.108a(d)(7)	Include a written statement, signed by a responsible official certifying the accuracy and completeness of the report.	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)		
40 CFR, Part 60.110b(b)	Exemption, Low Vapor Pressure	Y	
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	
40 CFR, Part 61 Subpart A	National Emission Standards for Hazardous Air Pollutants, General Provisions (04/21/2015/09/13/2010)		
61.01	Lists of Pollutants and Applicability of Part 61	Y	
61.02	Definitions	Y	
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR, Part 61 Subpart FF	National Emission Standards for Hazardous Air Pollutants, Benzene Waste Operations (02/27/201412/4/03)		
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 (TAB)	Y	
61.342(b)	Compliance for facilities with TAB >= 10 Mg/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)	Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y	
61.342(e)(2)(i)	Uncontrolled aqueous waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ)).	Y	
61.342(e)(2)(ii)	Determine 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	Standards: Tanks (applies if Baker tanks are used for non-aqueous wastes)	Y	
61.345(a)	Standards: Containers	Y	
61.345(a)(1)	Standards: Containers--Covers	Y	
61.345(a)(1)(ii)	Standards: Containers--Openings	Y	
61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
61.345(b)	Standards: Containers--Quarterly inspection	Y	
61.345(c)	Standards: Containers--Repairs	Y	

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**Table IV - A
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.346(b)	Alternate compliance provisions for Individual Drain Systems	Y	
61.346(b)(3)	No cracks on exposed sewer lines	Y	
61.346(b)(4)	Equipment Inspections	Y	
61.346(b)(4)(iv)	Monitor for cracks on exposed sewer lines quarterly	Y	
61.346(b)(5)	Repair as soon as practicable but no later than 15 days after identification	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 (TAB) from facility waste	Y	
61.355(a)(3)	TAB requirements if annual benzene quantity is greater than 11 ton/yr	Y	
61.355(a)(6)	Calculate TAB 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	Y	

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**Table IV - A
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Applicable Requirement	Regulation Title or Description of Requirement	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)(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)	TBQ in waste streams controlled for air emissions	Y	
61.355(k)(3)	TBQ in waste streams generated less than once per year	Y	
61.355(k)(4)	TBQ – exclusion for waste streams entering an enhanced biodegradation unit	Y	
61.355(k)(5)	Calculate benzene quantity in waste streams controlled for air emissions	Y	
61.355(k)(6)	Calculation of target benzene quantity (TBQ)	Y	
61.355(k)(7)	Multiple counting of benzene quantity of a waste stream	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping and retention requirements	Y	
61.356(b)	Recordkeeping Requirements: Waste stream records	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(b)(4)	Recordkeeping Requirements: Waste stream records for waste streams subject to 61.342(e) (Treat to 6 compliance option)	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(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 or more	Y	
61.357(d)(2)	Annual reports – contents per 61.357(a)(1), (2), and (3)	Y	
61.357(d)(5)	Reports of compliance with 61.342(e) [Treat to 6 compliance option]	Y	
61.357(d)(6)	Quarterly certifications of inspections	Y	
61.357(d)(7)	Quarterly reports	Y	
61.357(d)(8)	Annual reports of summary of all inspections	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	
40 CFR, Part 63 Subpart A	General Provisions of MACT Standards (12/04/201508/11/2011)		
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 Delegation	Y	
63.13	Addresses of State air pollution control agencies and EPA Regional Office	Y	
63.14	Incorporation by Reference	Y	
63.15	Availability of Information and Confidentiality	Y	
63.16	Performance Track Provisions	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (07/13/2016/06/30/2010)		
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-miscellaneous process vents	Y	
63.640(g)	Applicability and Designation <u>subpart</u> of Affected Source--Exempt Processes	Y	
63.640(h)	Applicability and Designation of Affected Source--Compliance dates	Y	
63.640(h)(2)	Compliance date—Existing sources	Y	—
63.640(h)(4)	Compliance date—Existing sources—exception for existing Group 1 storage vessels	Y	—
63.640(i)	Applicability and Designation of Affected Source--Requirements for addition of new petroleum refining process units at existing sources	Y	
63.640(j)	Applicability and Designation of Affected Source—Requirements for changes in petroleum refining process units at existing sources	Y	
63.640(k)	Applicability and Designation of Affected Source--Requirements at existing sources for additions and changes in petroleum refining process units subject to either 63.640(i) or 63.640(j)	Y	
63.640(l)	Applicability and Designation of Affected Source--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)	Y	
63.640(m)	Applicability and Designation of Affected Source—Requirements for changes causing Group 2 emission points to become Group 1 points	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
63.641	Definitions	Y	
63.642	General Standards	Y	
63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
<u>63.642(b)</u>	<u>The emission standards apply at all times</u>	<u>Y</u>	
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)	All applicable records shall be maintained as specified in 63.655(i) 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 applicable provisions in 63.643 through 63.645 and 63.647 as specified in 63.640(h) and shall also comply with the applicable requirements of 63.648, 63.654, 63.655, and 63.658. Existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.655 and is exempt from (g)	Y	
<u>63.642(n)</u>	<u>At all times, operate and maintain any source, air pollution, and monitoring equipment in a manner consistent with safety and good air pollution control practices</u>	<u>Y</u>	
63.647	Wastewater Provisions	Y	
63.655	Reporting and Recordkeeping Requirements	Y	
63.655(a)	Reporting and Recordkeeping Requirements: Wastewater Provisions	Y	
63.655(d)	Reporting and Recordkeeping Requirements: Equipment Leak Standards	Y	
63.655(e)	Reporting and Recordkeeping Requirements: Required Reports	Y	
63.655(f)	Reporting and Recordkeeping Requirements: Notification of Compliance Status Reports	Y	
63.655(g)	Reporting and Recordkeeping Requirements: Periodic Reports	Y	
63.655(h)	Reporting and Recordkeeping Requirements: Other reports	Y	
63.655(i)	Reporting and Recordkeeping Requirements: Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Appendix Table 6	General Provisions Applicability to Subpart CC	Y	
40 CFR Part 63 Subpart DDDDD	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		
<u>63.7485</u>	<u>Applicable to boilers and heaters located at a major source of HAP emissions</u>	<u>Y</u>	
<u>63.7490(a)</u>	<u>Applicable to any new or reconstructed industrial boiler or process heater</u>	<u>Y</u>	
<u>63.7490(a)(2)</u>	<u>The affected source is each new or reconstructed source at a major source;</u>	<u>Y</u>	
<u>63.7490(b)</u>	<u>A boiler or process heater is new if construction commences after June 4, 2010 and meets the applicability criteria for construction</u>	<u>Y</u>	
<u>63.7490(c)</u>	<u>A boiler or process heater is reconstructed if reconstruction commences after June 4, 2010 and meets the applicability criteria for reconstruction</u>	<u>Y</u>	
<u>63.7491</u>	<u>Boilers or process heaters not subject to this subpart</u>	<u>Y</u>	
<u>63.7495(a)</u>	<u>Comply with the requirements for new or reconstructed boilers and process heaters upon startup</u>	<u>Y</u>	
<u>63.7495(d)</u>	<u>Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A</u>	<u>Y</u>	
<u>63.7499</u>	<u>Subcategories of boiler and process heaters</u>	<u>Y</u>	
<u>63.7499(l)</u>	<u>Units designed to burn gas 1 fuels</u>	<u>Y</u>	
<u>63.7500</u>	<u>Emission limitations, work practice standards, and operating limits</u>	<u>Y</u>	
<u>63.7500(a)</u>	<u>Meet the requirements in paragraphs (a)(1) through (3) except as provided in (b) through (e)</u>	<u>Y</u>	
<u>63.7500(a)(1)</u>	<u>Meet each emission limit and work practice standards in Tables 1 through 3, and 11 through 13.</u>	<u>Y</u>	
<u>63.7500(a)(2)</u>	<u>For new or reconstructed boiler or process heater, comply with each operating limit in Table 4 that applies to the affected source.</u>	<u>Y</u>	
<u>63.7500(a)(3)</u>	<u>At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
<u>63.7500(b)</u>	<u>For new or reconstructed boilers or process heaters, EPA may approve use of an alternative work practice standard</u>	<u>Y</u>	
<u>63.7500(c)</u>	<u>For new or reconstructed boilers or process heaters, limited-use boilers and process heaters must complete a tune-up every 5 years and are not subject to Tables 1 and 2 or 11 through 13, the annual tune-up, or the energy assessment requirements in Table 3 or the operating limits in Table 4</u>	<u>Y</u>	
<u>63.7500(e)</u>	<u>Boilers and process heaters designed to burn gas 1 fuels subcategory:</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<ul style="list-style-type: none"> - <u>With a heat input capacity of less than or equal to 5 MMBtu/hr designed to burn gas 1 fuels subcategory must complete a tune-up every 5 years.</u> - <u>With a heat input capacity greater than 5 and less than 10 MMBtu/hr must complete a tune-up every 2 years.</u> - <u>Are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4</u> 		
<u>63.7500(f)</u>	<u>For new or reconstructed boilers or process heaters, the standards apply at all time the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Table 3</u>	<u>Y</u>	
<u>63.7505</u>	<u>General requirements for compliance</u>	<u>Y</u>	
<u>63.7505(a)</u>	<u>Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation except for the periods noted in 63.7500(f)</u>	<u>Y</u>	
<u>63.7505(c)</u>	<u>For new or reconstructed boilers or process heaters, comply with all applicable emission limits using the specified method</u>	<u>Y</u>	
<u>63.7505(d)</u>	<u>For new or reconstructed boilers or process heaters, compliance with an applicable emission limit through performance testing and subsequent compliance with operating limits with a CMS requires a site-specific monitoring plan as defined by paragraphs (d)(1) through (4) for the use of any CMS.</u>	<u>Y</u>	
<u>63.7510</u>	<u>Initial compliance requirements and dates</u>	<u>Y</u>	
<u>63.7510(a)</u>	<u>Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through performance testing</u>	<u>Y</u>	
<u>63.7510(b)</u>	<u>Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through fuel analysis</u>	<u>Y</u>	
<u>63.7510(c)</u>	<u>Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through performance testing for CO limit</u>	<u>Y</u>	
<u>63.7510(d)</u>	<u>Initial compliance requirements for new or reconstructed boilers or process heaters demonstrating through performance testing for PM limit</u>	<u>Y</u>	
<u>63.7510(f)</u>	<u>For new or reconstructed boilers or process heaters complete initial compliance demonstration with applicable emission limit within 180 days after startup of the source</u>	<u>Y</u>	
<u>63.7510(g)</u>	<u>For new or reconstructed boilers or process heaters complete initial compliance demonstration with applicable work practice standards in Table 3 within the applicable annual, biennial, or 5-year schedule following the initial compliance date specified in 63.7495(a), thereafter complete the tune-up as specified by</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>63.7515(d)</u>		
<u>63.7515</u>	<u>Subsequent performance tests, fuel analyses, and tune-up requirements</u>	<u>Y</u>	
<u>63.7515(a)</u>	<u>Annual performance test frequency for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7515(b)</u>	<u>Allowance for reduced frequency of performance tests for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7515(c)</u>	<u>Provisions to revert back to annual frequency of performance tests for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7515(d)</u>	<u>Conduct applicable tune-up work practice on an annual, biennial, or 5-yr basis according to 63.7540(a)(10), (11), or (12). For each new or reconstructed boiler or process heater: - <u>The first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after initial startup</u></u>	<u>Y</u>	
<u>63.7515(e)</u>	<u>Monthly fuel analysis compliance option frequency for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7515(f)</u>	<u>Reporting requirements for performance test and fuel analyses for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7515(i)</u>	<u>Special allowances for new or reconstructed boilers or process heaters demonstrating compliance with a CO CEMS</u>	<u>Y</u>	
<u>63.7520</u>	<u>Stack tests and procedures for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7521</u>	<u>Fuel analyses, fuel specifications, and procedures for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7522</u>	<u>Emissions averaging compliance options for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7525</u>	<u>Monitoring, installation, operation, and maintenance requirements</u>	<u>Y</u>	
<u>63.7525(a)</u>	<u>CO and O2 monitoring requirements for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7525(c)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable opacity operating limit</u>	<u>Y</u>	
<u>63.7525(d)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a CMS other than a PM CPMS or COMS</u>	<u>Y</u>	
<u>63.7525(e)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a flow monitoring system</u>	<u>Y</u>	
<u>63.7525(f)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>the use of a pressure monitoring system</u>		
<u>63.7525(g)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable operating limit that requires the use of a pH monitoring system</u>	<u>Y</u>	
<u>63.7525(k)</u>	<u>Recordkeeping requirements for new or reconstructed boilers or process heaters that meet the definition of limited-use boiler or process heater</u>	<u>Y</u>	
<u>63.7525(l)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable mercury or HCl emissions limit with a CEMS</u>	<u>Y</u>	
<u>63.7525(m)</u>	<u>Monitoring requirements for new or reconstructed boilers or process heaters with an applicable mercury or HCl emissions limit with control technology and an SO2 CEMS</u>	<u>Y</u>	
<u>63.7530</u>	<u>Initial compliance demonstration with emission limits, fuel specifications and work practice standards for new or reconstructed boilers or process heaters subject to emission limits</u>	<u>Y</u>	
<u>63.7533</u>	<u>Use of efficiency credits for compliance for new or reconstructed boilers or process heaters</u>	<u>Y</u>	
<u>63.7535</u>	<u>Minimum monitoring data requirements for new or reconstructed boilers or process heaters with CMS</u>	<u>Y</u>	
<u>63.7540</u>	<u>Continuous compliance demonstration requirements for emission limits, fuel specifications, and work practice standards</u>	<u>Y</u>	
<u>63.7540(a)</u>	<u>Continuous compliance requirements for emission limits, work practice standards, and operating limits</u>	<u>Y</u>	
<u>63.7540(a)(1)</u>	<u>Continuous compliance requirements for new or reconstructed boilers or process heaters with operating limits</u>	<u>Y</u>	
<u>63.7540(a)(2)</u>	<u>Continuous compliance requirements for new or reconstructed boilers or process heaters electing fuel analysis options</u>	<u>Y</u>	
<u>63.7540(a)(7)</u>	<u>Continuous compliance requirements for new or reconstructed boilers or process heaters electing fabric filter compliance options</u>	<u>Y</u>	
<u>63.7540(a)(8)</u>	<u>Continuous compliance requirements for new or reconstructed boilers or process heaters with CO CEMS emission limits</u>	<u>Y</u>	
<u>63.7540(a)(9)</u>	<u>Continuous compliance requirements for new or reconstructed boilers or process heaters with PM CPMS or PM CEMS compliance option</u>	<u>Y</u>	
<u>63.7540(a)(10)</u>	<u>Continuous compliance requirements for new or reconstructed boilers or process heaters with heat input greater than 10 MMBtu/hr, conduct an annual tune-up as specified in (a)(10)(i) through (vi), excluding limited-use sources or units with a continuous O2 trim system used to maintain optimum air to fuel ratio</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(i)	-- Inspect the burner and clean or replace any components of the burner as necessary	<u>Y</u>	
63.7540(a)(10)(ii)	-- Inspect the flame pattern and adjust as necessary to optimize the flame pattern. Adjustments should be consistent with manufacturer's specifications	<u>Y</u>	
63.7540(a)(10)(ii)	-- Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (inspection may be delayed until the next scheduled unit shutdown)	<u>Y</u>	
63.7540(a)(10)(iv)	-- Optimize total emissions of CO consistent with any applicable manufacturer's specifications and any applicable NOx requirements	<u>Y</u>	
63.7540(a)(10)(v)	-- Measure concentration of CO in the effluent stream in ppm, by volume, and oxygen in volume percent, before and after adjustments are made. Measurements may be taken using a portable CO analyzer.	<u>Y</u>	
63.7540(a)(10)(v)	-- Maintain on-site and submit, if requested by EPA, an annual report containing the following information:	<u>Y</u>	
63.7540(a)(10)(v)	-- The concentrations of CO in the effluent stream in ppm by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up	<u>Y</u>	
63.7540(a)(10)(v)	-- A description of any corrective actions taken as part of the tune-up	<u>Y</u>	
63.7540(a)(11)	Continuous compliance requirements for boilers or process heaters with heat input less than 10 MMBtu/hr, conduct a biennial tune-up as specified in (a)(10)(i) through (vi)	<u>Y</u>	
63.7540(a)(12)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a continuous O2 trim system, or boilers or process heaters with heat input less than 5 MMBtu/hr, conduct a tune-up every 5 years as specified in (a)(10)(i) through (vi)	<u>Y</u>	
63.7540(a)(13)	If the unit is not operating on the date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	<u>Y</u>	
63.7540(a)(14)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a CEMS for mercury	<u>Y</u>	
63.7540(a)(15)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a CEMS for HCl	<u>Y</u>	
63.7540(a)(18)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a PM CPMS	<u>Y</u>	
63.7540(a)(19)	Continuous compliance requirements for new or reconstructed boilers or process heaters with a PM CEMS	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(b)	Continuous reporting requirements for new or reconstructed boilers or process heaters subject to emission limits	<u>Y</u>	
63.7540(c)	Continuous compliance requirements for new or reconstructed boilers or process heaters subject to the mercury requirements for gas 1 subcategory fuels	<u>Y</u>	
63.7540(d)	For startup and shutdown, meet the work practice standards according to Items 5 and 6 of Table 3	<u>Y</u>	
63.7541	Continuous compliance demonstration requirements for new or reconstructed boilers or process heaters subject to the emissions averaging provisions	<u>Y</u>	
63.7545	Notifications	<u>Y</u>	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	<u>Y</u>	
63.7545(c)	For new or reconstructed sources, submit an Initial Notification no later than 15 days after the actual startup date	<u>Y</u>	
63.7545(d)	For new or reconstructed sources required to conduct a performance test, submit a Notification of Intent at least 60 days before the test is scheduled to begin	<u>Y</u>	
63.7545(e)	For new or reconstructed sources required to conduct an initial compliance demonstration, submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business on the 60th day following compliance of all performance tests and/or compliance demonstrations. The Notice must contain all the information in (e)(1) through (8), as applicable	<u>Y</u>	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	<u>Y</u>	
63.7545(e)(2)	For new or reconstructed process heaters or boilers, a summary of the results of all applicable performance tests and fuel analyses, and calculations conducted to demonstrate initial compliance	<u>Y</u>	
63.7545(e)(3)	For new or reconstructed process heaters or boilers, a summary of the applicable maximum CO emission levels recorded during performance testing	<u>Y</u>	
63.7545(e)(4)	For new or reconstructed process heaters or boilers, identification of whether compliance was demonstrated through performance testing, a CEMS, or fuel analysis	<u>Y</u>	
63.7545(e)(5)	For new or reconstructed process heaters or boilers, identification of whether compliance was demonstrated through emissions averaging or use of efficiency credits	<u>Y</u>	
63.7545(e)(6)	For new or reconstructed process heaters or boilers, a signed certification of compliance with all applicable emission limits and	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>work practice standards</u>		
<u>63.7545(e)(7)</u>	<u>For new or reconstructed process heaters or boilers, a description of any deviation from any work practice standard or operating limit</u>	<u>Y</u>	
<u>63.7545(e)(8)</u>	<u>In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:</u>	<u>Y</u>	
<u>63.7545(e)(8)(i)</u>	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	<u>Y</u>	
<u>63.7545(e)(8)(ii)</u>	<u>"This facility has had an energy assessment performed according to 63.7530(e)."</u>	<u>Y</u>	
<u>63.7550</u>	<u>Reports</u>	<u>Y</u>	
<u>63.7550(a)</u>	<u>Submit each report in Table 9 that applies</u>	<u>Y</u>	
<u>63.7550(b)</u>	<u>Submit each report by the date in Table 9 and according to paragraphs (b)(1) through (4). For units only subject to tune-up requirements and not subject to emission or operating limits, submit a tune-up compliance report as specified in (b)(1) through (4), instead of a report</u>	<u>Y</u>	
<u>63.7550(c)</u>	<u>Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply</u>	<u>Y</u>	
<u>63.7550(d)</u>	<u>For each new or reconstructed boiler or process heater subject to an emission or operating limit, submit a compliance report for each deviation from a limit including the information in (d)(1) through (3)</u>	<u>Y</u>	
<u>63.7550(e)</u>	<u>For each new or reconstructed boiler or process heater subject to an emission, operating limit, or monitoring requirement where a CMS is used, submit a compliance report for each deviation including the information in (e)(1) through (9)</u>	<u>Y</u>	
<u>63.7550(h)</u>	<u>Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)</u>	<u>Y</u>	
<u>63.7550(h)(1)</u>	<u>EPA WebFIRE, CEDRI, and CDX reporting requirements</u>	<u>Y</u>	
<u>63.7550(h)(2)</u>	<u>EPA WebFIRE, CEDRI, and CDX reporting requirements for new or reconstructed boilers subject to CEMS performance evaluation tests</u>	<u>Y</u>	
<u>63.7550(h)(3)</u>	<u>EPA WebFIRE, CEDRI, and CDX reporting requirements for reports required by Table 9, or if reporting form is not yet available, submit the report to the address listed in 63.13</u>	<u>Y</u>	
<u>63.7555</u>	<u>Recordkeeping Requirements</u>	<u>Y</u>	
<u>63.7555(a)</u>	<u>Keep records according to paragraphs (a)(1) and (2) of this section</u>	<u>Y</u>	
<u>63.7555(a)(1)</u>	<u>A copy of each notification and report submitted to comply with</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)</u>		
<u>63.7555(a)(2)</u>	<u>Records of performance tests, fuel analyses, or other compliance demonstrations and performances evaluations as required in 63.10(b)(2)(viii)</u>	<u>Y</u>	
<u>63.7555(b)</u>	<u>Records for each CEMS, COMS, or CMS for new or reconstructed process heaters or boilers</u>	<u>Y</u>	
<u>63.7555(c)</u>	<u>Records of monitoring data and calculated averages for applicable operating limits for new or reconstructed process heaters or boilers</u>	<u>Y</u>	
<u>63.7555(d)</u>	<u>Records to demonstrate compliance with applicable emission limits for new or reconstructed process heaters or boilers</u>	<u>Y</u>	
<u>63.7555(e)</u>	<u>Records to demonstrate compliance with emissions averaging for new or reconstructed process heaters or boilers</u>	<u>Y</u>	
<u>63.7555(f)</u>	<u>Records to demonstrate use of efficiency credits for new or reconstructed process heaters or boilers</u>	<u>Y</u>	
<u>63.7555(g)</u>	<u>Records to demonstrate compliance with the mercury specification for new or reconstructed process heaters or boilers</u>	<u>Y</u>	
<u>63.7560</u>	<u>Record Retention Requirements</u>	<u>Y</u>	
<u>63.7560(a)</u>	<u>Records must be in a form suitable and readily available for review according to 63.10(b)(1)</u>	<u>Y</u>	
<u>63.7560(b)</u>	<u>Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</u>	<u>Y</u>	
<u>63.7560(c)</u>	<u>Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years</u>	<u>Y</u>	
<u>63.7565</u>	<u>Applicability of General Provisions (Table 10)</u>	<u>Y</u>	
<u>63.7575</u>	<u>Definition: Subpart DDDDD is applicable to boilers and process heaters as defined by 63.7575</u>	<u>Y</u>	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.15	Restriction on use of asphalt plant wastewater and refinery wastewater for dust control (cumulative increase)	Y	
Part I.18	NMHC and NOx estimates (Cumulative Increase)	Y	
Part IV.1	Water seals, P-traps, caps, covers on process water drains (1-301)	N	
BAAQMD Condition 20762			
Part 1	Vapor Pressure Verification when switching exempt storage liquids	Y	

IV. Source Specific Applicable Requirements

**Table IV - A
 General Asphalt Plant Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Requirements to switch from low vapor pressure liquid to liquid with vapor pressure > 0.5 psia	Y	
Part 3	Retain results of vapor pressure testing for five years	Y	

**Table IV – B
 Source-specific Applicable Requirements
 S3, GAS OIL STORAGE TANK, TK-4601C**

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	Storage of Organic Liquids (06/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Pollutants for Petroleum Refining (07/13/2016 06/30/2010) Requirements for Group 2 Tanks		
<u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u>			
63.640(c)(2)	Applicability and Designation of Affected Source – storage vessels	Y	
63.641	Definitions	Y	
63.646(b)	Storage Vessel Provisions—Definitions of terms, Definition and determination of Group 1 storage vessels	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S3, GAS OIL STORAGE TANK, TK-4601C

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for Group 2 storage vessels	Y	
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for Group 2 storage vessels	Y	
63.655(i)(65)	Reporting and Recordkeeping Requirements--Recordkeeping--Record retention	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18c	Estimates of NMHC emissions from tanks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, Cumulative Increase, BACT, Toxics)	Y	
Part II.40	Storage of materials other than gas oil (Cumulative Increase, Toxics)	Y	
Part II.41	Storage of at least 38,400,000 gallons gas oil per yr (Offsets)	Y	
Part II.42	Vapor pressure requirement (Cumulative Increase, NSPS)	Y	
Part II.45	Requirement for gasketed tank fittings (BACT)	Y	
Part II.46	Recordkeeping (Cumulative Increase)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414))	Y	
Part II.93	Contain Emissions in Closed Vent System (Cumulative Increase)	Y	
<u>Part II.94</u>	<u>Contain Emissions in Closed Vent System for S3. (Cumulative Increase)</u>	<u>Y</u>	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	
BAAQMD Condition 20762			

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S3, GAS OIL STORAGE TANK, TK-4601C

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Vapor Pressure Verification when switching exempt storage liquids	Y	
Part 2	Requirements to switch from low vapor pressure liquid to liquid with vapor pressure > 0.5 psia	Y	
Part 3	Retain results of vapor pressure testing for five years	Y	

Table IV - C
Source-specific Applicable Requirements
S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
ASPHALT STORAGE TANKS

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 #1 Limitation	N	
6-1-302	Opacity 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 Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
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	Organic Compounds, Storage of Organic Liquids (10/18/2006)		

IV. Source Specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
ASPHALT STORAGE TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 8, Rule 5			
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Regulation 8, Rule 15	Organic Compounds, Emulsified and Liquid Asphalts (6/1/94)		
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	
BAAQMD Regulation 10	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-51	40 CFR, Part, 60 Subpart UU	Y	
40 CFR, Part 60 Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (10/17/0002/27/2014)		
60.470(a)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.470(b)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.472(c)	Asphalt storage tank opacity standard	Y	
60.473(c)	Parametric monitoring	Y	
60.473(d)	Exemption from quarterly reports	Y	
60.474(c)(5)	Test methods and procedures; use Method 9 and 60.11 to determine opacity	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Pollutants for Petroleum Refining (07/13/201606/30/2010) Requirements for Group 2 Tanks		
<i>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</i>			
63.640(c)(2)	Applicability and Designation of Affected Source – storage vessels	Y	

IV. Source Specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
ASPHALT STORAGE TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.641	Definitions	Y	
63.646(b)	Storage Vessel Provisions—Definitions of terms, Definition and determination of Group 1 storage vessels	Y	
63.655(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
63.655(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for Group 2 storage vessels	Y	
63.655(i)(1)(vi)	Reporting and Recordkeeping Requirements--Recordkeeping for Group 2 storage vessels	Y	
63.655(i)(65)	Reporting and Recordkeeping Requirements--Recordkeeping--Record retention	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18c	Estimates of NMHC emissions from tanks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, Cumulative Increase, BACT, Toxics)	Y	
Part II.48	Combined Throughput Limit S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, and S65 (Cumulative Increase, Offsets)	Y	
Part II.49	Prohibition against cutback asphalt (Toxics)	Y	
Part II.50	Vapor Pressure Limit S5, S6, S7, S8, S37, S38, S51, S52, S53, S60 (Cumulative Increase, Offsets)	Y	
Part II.51	Vapor Pressure Limit S61, S62 (Cumulative Increase, Offsets, BACT)	Y	
Part II.52	Vapor Pressure Limit S65 (Cumulative Increase, Offsets, BACT)	Y	
Part II.58	Recordkeeping Requirement (Cumulative Increase)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii))	Y	

IV. Source Specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
ASPHALT STORAGE TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)		
Part II.93	Contain Emissions in Closed Vent System for S5, S6, S7, S8. (Cumulative Increase)	Y	
Part II.94	Contain Emissions in Closed Vent System for S37, S38, S51, S52, S53, S60, S61, S62, S65. (Cumulative Increase)	Y	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	
BAAQMD Condition 20762			
Part 1	Vapor Pressure Verification when switching exempt storage liquids	Y	
Part 2	Requirements to switch from low vapor pressure liquid to liquid with vapor pressure > 0.5 psia	Y	
Part 3	Retain results of vapor pressure testing for five years	Y	

Table IV - D
Source-specific Applicable Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

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)		
8-5-111	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	

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Table IV - D
Source-specific Applicable Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 Roof Tanks;	N	
8-5-305.2	Requirements for Internal Floating Roof Tanks; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating Roof Tanks; Viewports in fixed roof tank; not required if dome roof has translucent panels.	Y	
8-5-305.4	Requirements for internal Floating Roof Tanks; Tank fittings (8-5-320)	Y	
8-5-305.5	Requirements for internal Floating Roof Tanks; Floating roof requirements	N	
8-5-305.6	Requirements for internal Floating Roof Tanks; 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; Inaccessible opening requirements	Y	

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Table IV - D
Source-specific Applicable Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 gap requirements	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	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	
8-5-322.3	Secondary Seal Requirements; Gap requirements for all tanks	Y	
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N	
8-5-328.2	Tank Degassing Requirements; Ozone excess day prohibition	Y	
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N	
8-5-331	Tank Cleaning Requirements; 90% Abatement Efficiency if abatement device used	N	
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N	
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N	

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Table IV - D
Source-specific Applicable Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspections of Outermost Seal	N	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting 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	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-501.3	Records; Retention	N	
8-5-502	Source Test Requirements	N	
8-5-502.2	Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602	Y	
8-5-602	Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1	Y	
8-5-603	Determination of Abatement Efficiency: for abatement device used to comply with the requirements of 8-5-328.1 or 331	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure: for organic compounds listed in Table 1	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	Storage of Organic Liquids (06/05/2003)		

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Source-specific Applicable Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	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; 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 before commencement of work and certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Limited 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 Roof Tanks; Floating roof requirements	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface.	Y	
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	Y	
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	Y	
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells; Cover, gasket, pole sleeve	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 larger than 75 m ³	Y	
8-5-328.1.2	Tank degassing requirements; Tanks larger than 75 m ³ ; Concentration of organic compounds in tank of < 10,000 ppm as	Y	

IV. Source Specific Applicable Requirements

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Source-specific Applicable Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	methane after degassing		
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 Outermost Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-405.1	Information required; Date of inspection	Y	
8-5-405.2	Information required; Actual gap measurements	Y	
8-5-405.3	Information required; Data, supported calculation	Y	
8-5-502	Tank Degassing Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
BAAQMD Regulation 10	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-17	40 CFR, Part 60 Subpart Kb	Y	
BAAQMD Regulation 11 Rule 12	NESHAPS Incorporation by Reference, 40 CFR, Part 61 Subpart FF Benzene Waste (01/05/1994)	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. (10/15/03)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 75 cubic meter, after 7/23/1984	Y	
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cubic meter with maximum TVP >=5.2 kPa and <76.6; or >= 75 cubic meter and < 151 cubic meter with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y	
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC), internal floating roof option	Y	
60.112b(a)(1)(i)	Requirements for internal floating roof resting or floating on liquid surface. Exempt if the floating roof is landed on its support legs. When roof is resting on support legs, filling, emptying, and refilling shall proceed as quickly as possible.	Y	
60.112b(a)(1)	Requirement for two seals, one mounted above the other	Y	

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**Table IV - D
 Source-specific Applicable Requirements
 S9, NAPHTHA STORAGE TANK, TK-4607
 INTERNAL FLOATING ROOF TANK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(ii)(B)			
60.112b(a)(1)(iii)	Openings except for automatic bleeder vents and rim space vents must provide projection below liquid surface.	Y	
60.112b(a)(1)(iv)	Openings in internal floating roof	Y	
60.112b(a)(1)(v)	Automatic bleeder vents	Y	
60.112b(a)(1)(vi)	Rim space vents	Y	
60.112b(a)(1)(vii)	Sample wells	Y	
60.112b(a)(1)(viii)	Penetrations allowing for passage of columns	Y	
60.112b(a)(1)(ix)	Penetrations allowing for passage of ladders	Y	
60.113b	Testing and procedures	Y	
60.113b(a)	Inspections for internal floating roofs	Y	
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before filling	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)(i)	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)	Record keeping and reporting requirements	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	

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**Table IV - D
 Source-specific Applicable Requirements
 S9, NAPHTHA STORAGE TANK, TK-4607
 INTERNAL FLOATING ROOF TANK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
60.116b	Monitoring of operations	Y	
60.116b(a)	Retention of record for two years	Y	
60.116b(b)	Records of dimensions and capacity	Y	
60.116b(c)	Records of VOL stored, period of storage, and maximum true vapor pressure	Y	
60.116b(e)	Determination of vapor pressure for crude oil or refined petroleum products	Y	
60.116b(e)(1)	Monitoring of Operations; Determine TVP-temperature selection based on tank operating temperatures	Y	
60.116b(e)(2)(i)	use of API nomographs to determine true vapor pressure	Y	
60.116b(e)(2)(i)	determination of true vapor pressure under special circumstances	Y	
40 CFR, Part 61 Subpart FF	National Emission Standards for Hazardous Pollutants Benzene Waste Operations (02/27/201412/04/2003) Requirements for Internal Floating Roof Tanks		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342	Standards: General	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(g)	Compliance determined by review of facility records, results of tests and inspections	Y	
61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
61.346(b)	Alternate compliance provisions for Individual Drain Systems	Y	

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**Table IV - D
 Source-specific Applicable Requirements
 S9, NAPHTHA STORAGE TANK, TK-4607
 INTERNAL FLOATING ROOF TANK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.346(b)(3)	No cracks on exposed sewer lines	Y	
61.346(b)(4)	Equipment Inspections	Y	
61.346(b)(4)(iv)	Monitor for cracks on exposed sewer lines quarterly	Y	
61.346(b)(5)	Repair as soon as practicable but no later than 15 days after identification	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	
61.351(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(g)	Recordkeeping Requirements: Records of visual inspections of individual drain systems required by 61.346	Y	
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR, Part 60.115b	Y	
61.357(f)	Reporting Requirements: 61.351 control equipment must comply with 40 CFR, Part 60.115b	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Pollutants for Petroleum Refining (07/13/201606/30/2019)		
63.640(c)(2)	Applicability and Designation of Affected Source – storage vessels	Y	
63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels: Tanks subject to 40 CFR, Part Subpart Kb comply with 40 CFR, Part Subpart Kb except as provided in 40 CFR, Part 60.640(n)(8).	Y	
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for NSPS Kb internal floating roof tanks	Y	
63.640(n)(8)(ii)	Structurally unsound roofs	Y	
63.640(n)(8)(iii)	Extensions for compliance	Y	
63.640(n)(8)(iv)	Additional reports if extension is used	Y	

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Table IV - D
Source-specific Applicable Requirements
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INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.640(n)(8)(v)	Subpart Kb reports may be submitted for this subpart. Permit holder has 60 days in lieu of Subpart Kb deadline.	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18c	Estimates of NMHC emissions from tanks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.25	Storage of Materials Other than Naphtha (Cumulative Increase, Toxics)	Y	
Part II.26	Vapor Pressure Limit (Cumulative Increase, Toxics)	Y	
Part II.27a	Internal Floating Roof Requirements (Cumulative Increase, NSPS)	Y	
Part II.28	Throughput Limit (Cumulative Increase, Toxics)	Y	
Part II.29	Recordkeeping (Cumulative Increase)	Y	

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

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 (10/18/06)		

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Applicable Requirement	Regulation Title or Description of Requirement	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	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; use vapor recovery during filling and emptying 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	N	
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-303.1	Requirements for Pressure Vacuum Valves; Set Pressure	N	
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas Tight Requirement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirement for Approved Emission Control Systems; Abatement efficiency >=90%	N	
8-5-306.2	Requirements for Approved Emission Control Systems: Gas tight requirement (BAAQMD 8-5-118 limited exemption does not apply for tank appurtenances per 8-18-115)	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 gas tight standards in 8-5-303	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves gas tight standards in 8-5-307.3	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas <u>collection system for combustion</u> 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	
8-5-502.2	Source Test Requirements for abatement device used to comply with 8-5-238.1 or 331	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602	Y	
8-5-602	Analysis of Samples, True Vapor Pressure: <u>for organic compounds not listed in Table 1</u>	Y	
8-5-603	Determination of Abatement Efficiency: <u>for abatement device used to comply with the requirements of 8-5-328.1 or 331</u>	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure: <u>for organic compounds listed in Table 1</u>	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	Storage of Organic Liquids (6/5/03)		
Regulation 8, Rule 5			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
<u>8-5-111.7</u>	<u>Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328</u>	<u>Y</u>	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance before commencement of work and certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Limited Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
<u>8-5-303</u>	<u>Requirements for Pressure Vacuum Valve</u>	<u>N</u>	
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 larger than 75 m ³	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks larger than 75 m ³ ; Concentration of organic compounds in tank 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 Relief Devices	Y	
8-5-404	Certification	Y	
<u>8-5-502</u>	<u>Tank Degassing Annual Source Test Requirement</u>		
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
<u>8-5-603.1</u>	<u>Source tests for approved emission control system</u>	<u>N</u>	
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	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	National Emission Standards for Benzene Waste Operations		

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Subpart FF	(02/27/2014/12/4/03) Requirements for Uncontrolled Aqueous Waste Streams in 6BQ Facility		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(b)	Standards: General; Compliance for facilities with TAB >= 10 Mg/year	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] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene (target benzene quantity (TBQ).	Y	
61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k).	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Pollutants for Petroleum Refining (07/13/2016/6/23/03) Requirements for Group 2 Wastewater Streams		
63.640(c)(3)	Wastewater streams associated with petroleum refining process units	Y	
63.641	Definitions	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18c	Estimates of NMHC emissions from tanks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, cumulative increase, BACT, toxics)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)	Y	

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part II.93	Contain Emissions in Closed Vent System (Cumulative Increase)	Y	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	
Part II.97	Annual throughput limit for S26 (Cumulative increase)	Y	
Part II.98	Annual throughput limit combined for S12 and S28 (Cumulative increase)	Y	
Part II.99	Annual throughput limit for S67 (Cumulative increase)	Y	
Part II.100a	POC emission limits for S12, S26, S28, and S67 (Cumulative increase)	Y	
Part II.100b	Risk screening trigger levels (Toxics)	Y	
Part II.101	Recordkeeping (Cumulative increase)	Y	

Table IV - F
Source-specific Applicable Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

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)		
8-5-111	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	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; use vapor recovery during filling and emptying 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	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	N	
8-5-306	Requirements for Approved Emission Control Systems	N	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-306.1	Requirement for Approved Emission Control Systems; Abatement efficiency >=90%	N	
8-5-306.2	Requirements for Approved Emission Control Systems: Gas tight requirement (BAAQMD 8-5-118 limited exemption does not apply for tank appurtenances per 8-18-115)	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 gas tight standards in 8-5-303	N	
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves gas tight standards in 8-5-307.3	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.3	Records; Retention	N	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-501.4	Records; New pressure vacuum valve setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas collection system for combustion 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	
8-5-502.2	Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331	N	
8-5-601	Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602	Y	
8-5-602	Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1	Y	
8-5-603	Determination of Abatement Efficiency: for abatement device used to comply with the requirements of 8-5-328.1 or 331	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure: for organic compounds listed in Table 1	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	Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
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S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance before commencement of work and certified per 8-5-404	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-117	Limited 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 Valve	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 larger than 75 m ³	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks larger than 75 m ³ ; Concentration of organic compounds in tank 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 Relief Devices	Y	
8-5-404	Certification	Y	
8-5-502	Tank Degassing Annual Source Test Requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Source tests for approved emission control system	Y	
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	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. (10/15/03)		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic	Y	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	liquid storage vessels > or = to 75 cubic meter, after 7/23/1984		
60.112b(a)(3)	Closed vent system and control device	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(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries (07/13/2016/30/2010)		
63.640(c)(2)	Applicability and Designation of Affected Source – storage vessels	Y	
63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels: Tanks subject to 40 CFR, Part 60 Subpart Kb comply with 40 CFR, Part, Subpart Kb except as provided in 40 CFR, Part 60.640(n)(8).	Y	
63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels—no additional requirements for fixed roof tanks	Y	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
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S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18c	Estimates of NMHC emissions from tanks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.30	Storage of Materials other than Kerosene, Light or Heavy Vacuum Gas Oil, or Asphalt (Cumulative Increase, Toxics)	Y	
Part II.31	Vapor Pressure Limit (Cumulative Increase, Toxics)	Y	
Part II.31a	Monitoring for vapor pressure limit	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, Cumulative Increase, BACT, Toxics)	Y	
Part II.32e	Monitoring of fugitive emissions at closed vent system (2-6-503)	Y	
Part II.33a	Throughput Limit (Cumulative Increase, Toxics)	Y	
Part II.33b	S63 Prohibition against cutback asphalt materials (Toxics)	Y	
Part II.34	Recordkeeping (Cumulative Increase)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)	Y	
Part II.93	Contain Emissions in Closed Vent System for S59 (Cumulative Increase)	Y	
Part II.94	Contain Emissions in Closed Vent System for S13 and S63 (Cumulative Increase)	Y	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - G
Source-specific Applicable Requirements
S16, TRUCK LOADING RACKS, HEAVY VACUUM GAS OIL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18d	Estimates of NMHC emissions from loading racks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.90	Vapor Pressure Limit (Cumulative Increase)	Y	
Part II.91	Throughput Limit (Cumulative Increase)	Y	
Part II.91a	Recordkeeping (Cumulative Increase)	Y	

Table IV - H
Source-specific Applicable Requirements
S17, TRUCK LOADING RACKS-ASPHALT

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 #1 Limitation	N	
6-1-302	Opacity 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 (9/4/1998)		

IV. Source Specific Applicable Requirements

Table IV - H
Source-specific Applicable Requirements
S17, TRUCK LOADING RACKS-ASPHALT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 15	Organic Compounds, Emulsified and Liquid Asphalts (6/1/94)		
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	
BAAQMD Condition #1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18d	Estimates of NMHC emissions from loading racks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part I.19	1570F Minimum Operating Temperature and monitoring (2-6-503)	Y	
Part II.8	Control Requirements for S17 (Cumulative Increase)	Y	
Part II.65	Control Requirement (Cumulative Increase)	Y	
Part II.68	Destruction Efficiency Requirement (Cumulative Increase, BACT)	Y	
Part II.71	Vapor Pressure and Kerosene Throughput Requirement (Cumulative Increase, offsets)	Y	
Part II.74	Asphalt Throughput Requirement (Cumulative Increase, offsets)	Y	
Part II.75	Recordkeeping Requirement (Cumulative Increase)	Y	
Part IV.2	Asphalt truck inspections. (1-301)	N	
Part IV.3	Notification to trucking companies (1-301)	N	

IV. Source Specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
S18, CRUDE UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1240			
Part I.1	Annual Throughput Limit (Cumulative Increase, Toxics, Offsets)	Y	
Part I.2	Daily Throughput Limit (Cumulative Increase, Toxics)	Y	
Part I.3	Vent to refinery fuel gas recovery system, S-9 (cumulative increase, toxics)	Y	
Part I.4	Recordkeeping (Cumulative Increase)	Y	
Part I.7	Mechanical seals, packing, and compressor seals (Cumulative Increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18b	Estimates of NMHC emissions from sources of fugitive emissions (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	<u>Y</u>	

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Source-specific Applicable Requirements
S19, VACUUM HEATER

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)		
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	

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 Source-specific Applicable Requirements
 S19, VACUUM HEATER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	General Provisions and Definitions (06/28/199903/04/2009)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/20078/1/2018)		
<u>6-1-114</u>	<u>Limited Exemptios</u>	<u>N</u>	
<u>6-1-114.1</u>	<u>Limited Exemption, TSP Limits for Gas-Fuel Fired Indirect Heat Exchangers</u>	<u>N</u>	
<u>6-1-114.3</u>	<u>Limited Exemption, 6-1-504 Source Test Requirements</u>	<u>N</u>	
6-1-301	Ringelmann #1 Limitation	N	
<u>6-1-302</u>	<u>Opacity Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
6-1-310	Particulate Weight LimitationTSP Concentration Limits	N	
<u>6-1-310.1</u>	<u>TSP Concentration Limit (0.15 gr/dscf)</u>	<u>N</u>	
<u>6-1-310.3</u>	<u>—Heat Transfer Operations</u>	<u>N</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible EmissionsApplicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-301	Ringelmann #1 Limitation	Y	
<u>6-305</u>	<u>Visible Particles</u>	<u>Y</u>	
6-310	Particulate Weight Limitation	Y	
<u>6-310.3</u>	<u>—Heat Transfer Operations</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
40 CFR Part 63 Subpart	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		

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 Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>DDDDD</u>			
<u>63.7485</u>	<u>Applicable to boilers and heaters located at a major source of HAP emissions</u>	<u>Y</u>	
<u>63.7490(a)</u>	<u>Applicable to any new, reconstructed, or existing industrial boiler or process heater</u>	<u>Y</u>	
<u>63.7490(a)(1)</u>	<u>The affected source is the collection of all existing sources at a major source;</u>	<u>Y</u>	
<u>63.7490(d)</u>	<u>A boiler or process heater is existing if it is not new or reconstructed.</u>	<u>Y</u>	
<u>63.7495(b)</u>	<u>Comply with the work practice standards for existing boilers and process heaters by January 31, 2016</u>	<u>Y</u>	
<u>63.7495(d)</u>	<u>Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A</u>	<u>Y</u>	
<u>63.7499</u>	<u>Subcategories of boiler and process heaters</u>	<u>Y</u>	
<u>63.7499(l)</u>	<u>Units designed to burn gas 1 fuels</u>	<u>Y</u>	
<u>63.7500</u>	<u>Emission limitations, work practice standards, and operating limits</u>	<u>Y</u>	
<u>63.7500(a)</u>	<u>Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)</u>	<u>Y</u>	
<u>63.7500(a)(1)</u>	<u>Meet the work practice standards in Table 3: tune-ups and one-time energy assessment</u>	<u>Y</u>	
<u>63.7500(a)(3)</u>	<u>At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
<u>63.7500(e)</u>	<u>Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4</u>	<u>Y</u>	
<u>63.7505</u>	<u>General requirements for compliance</u>	<u>Y</u>	
<u>63.7505(a)</u>	<u>Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation</u>	<u>Y</u>	
<u>63.7510</u>	<u>Initial Compliance Requirements</u>	<u>Y</u>	
<u>63.7510(e)</u>	<u>Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016</u>	<u>Y</u>	
<u>63.7515</u>	<u>Tune-up Requirements</u>	<u>Y</u>	
<u>63.7515(d)</u>	<u>Conduct tune up in accordance with 63.7540(a) and comply with the period allowed between tune-ups</u>	<u>Y</u>	
<u>63.7530</u>	<u>Initial Compliance Demonstration with work practice standards</u>	<u>Y</u>	
<u>63.7530(e)</u>	<u>Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to</u>	<u>Y</u>	

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S19, VACUUM HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Table 3 and is an accurate depiction of the facility at the time of the assessment</u>		
63.7540	<u>Demonstrate Continuous Compliance with the Work Practice Standards</u>	Y	
63.7540(a)	<u>Demonstrate continuous compliance with the work practice standards in Table 3</u>	Y	
63.7540(a)(10)	<u>Conduct tune-up as specified in (a)(10)(i) through (vi)</u>	Y	
63.7540(a)(13)	<u>If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup</u>	Y	
63.7545	<u>Notification Requirements</u>	Y	
63.7545(a)	<u>Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates</u>	Y	
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)</u>	Y	
63.7545(e)(1)	<u>A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned</u>	Y	
63.7545(e)(8)	<u>In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:</u>	Y	
63.7545(e)(8)(i)	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	Y	
63.7545(e)(8)(ii)	<u>"This facility has had an energy assessment performed according to 63.7530(e)."</u>	Y	
63.7550	<u>Reports</u>	Y	
63.7550(a)	<u>Submit each report in Table 9 that applies</u>	Y	
63.7550(b)	<u>Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).</u>	Y	
63.7550(c)	<u>Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply</u>	Y	
63.7550(c)(1)	<u>Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section</u>	Y	
63.7550(c)(5)	<u>Information required in compliance reports</u>	Y	
63.7550(c)(5)(i)	<u>Company and Facility name and address</u>	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(ii)	<u>Process Unit information</u>	Y	
63.7550(c)(5)(iii)	<u>Date of report and beginning and ending dates of the reporting period</u>	Y	
63.7550(c)(5)(xiv)	<u>The date of the most recent tune-up for each unit subject to only the requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown</u>	Y	
63.7550(c)(5)(xvii)	<u>Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report</u>	Y	
63.7550(h)	<u>Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)</u>	Y	
63.7550(h)(3)	<u>Electronic submission of reports</u>	Y	
63.7555	<u>Recordkeeping</u>	Y	
63.7555(a)	<u>Required records</u>	Y	
63.7555(a)(1)	<u>A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)</u>	Y	
63.7560	<u>Record Retention Requirements</u>	Y	
63.7560(a)	<u>Records must be in a form suitable and readily available for review according to 63.10(b)(1)</u>	Y	
63.7560(b)	<u>Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</u>	Y	
63.7560(c)	<u>Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years</u>	Y	
63.7565	<u>Applicability of General Provisions (Table 10)</u>	Y	
BAAQMD Condition 1240			
Part I.3a	<u>Control Requirement, S18 Crude Unit offgas must vent to S19 refinery fuel gas system S9 at all times (Cumulative Increase, Toxics)</u>	Y	
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	
Part I.5a	Natural gas firing only and S19 Heat Input Limit (Cumulative	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Increase)		
Part I.5b	CO Concentration Limit (Cumulative Increase, BACT)	Y	
Part I.5c	Hourly CO Limit (Cumulative Increase, BACT)	Y	
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.8	Low NOx Burner Requirement, NOx emission limit (Cumulative Increase, BACT)	Y	
Part I.10	Requirement for Continuous Recording Oxygen Analyzers (2-1-403)	Y	
Part I.11	Permit application for NSPS Ja for NOx and flaring applicability (Regulation 2-1-403)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.16a	Source Test Requirements for NOx and CO limits (Cumulative Increase, Toxics)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18f	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18h	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	

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 Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (05/04/2011)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	

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 Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (06/28/199903/04/2009)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (4/7/99) ** To be deleted upon expiration of NOx IERCs		
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	**
2-9-402	Complete IERC Banking Application	N	**
2-9-501	Monitoring and Record Keeping	N	**
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/20078/1/2018)		
6-1-114	Limited Exemptios	N	
6-1-114.1	Limited Exemption, TSP Limits for Gas-Fuel Fired Indirect Heat Exchangers	N	
6-1-114.3	Limited Exemption, 6-1-504 Source Test Requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation TSP Concentration Limits	N	
6-1-310.13	Heat Transfer Operations TSP Concentration Limit (0.15 gr/dscf)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (12/15/2010/16/2013)		
9-10-113	Limited Exemption, Alternate NOx Compliance Plan	N	
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	N	
9-10-301.1	Units in Start up or Shutdown or Curtailed Operation	N	
9-10-301.2	Units Temporarily Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	N	
9-10-305	CO emission limit	N	
9-10-308	Alternate NOx Compliance Plan, Daily Mass Emissions limit for Facility, NOx	N	
9-10-308.1	Daily NOx Limit	N	
9-10-308.2	Determine Compliance on a Daily Basis	N	
9-10-308.3	Baseline Daily NOx Emissions Adjustment	N	
9-10-308.4	Daily NOx Mass Emission Limit Adjustment	N	
9-10-405	Application for an Alternate NOx Compliance Plan	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, 305, 307, and/or 307308	N	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent verification system	N	
9-10-502.1.2	Parametric Monitoring System to Monitor Compliance	N	
9-10-502.1.2.1	Annual Source Test for NOx	N	
9-10-502.2	Fuel flowmeters	N	
9-10-503	Modified Maximum Heat Input	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records for sources subject to 9-10-301, 303, 304, or 305, 307, 308, or 404	N	
9-10-504.1.1	CEMS or Parametric Monitoring System Measurement Data	N	
9-10-504.1.2	Type, Heat Input, and HHV of Fuel and Injection Rate for Emission	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>Control Systems</u>		
<u>9-10-504.1.3</u>	<u>Date, Time, and Duration of Startup, Shutdown, or Malfunction of Unit, Emission Control Equipment, or Monitoring Equipment</u>	<u>N</u>	
<u>9-10-504.1.4</u>	<u>CEMS Performance Tests, Evaluations, Calibrations, Checks, Adjustments, and Maintenance</u>	<u>N</u>	
<u>9-10-504.1.5</u>	<u>List of Sources Subject to 9-10-301 and 303</u>	<u>N</u>	
<u>9-10-504.1.6</u>	<u>On a Daily Basis, Total NOx Emissions and Total Heat Input for Sources Listed for 9-10-504.1.4</u>	<u>N</u>	
<u>9-10-504.1.7</u>	<u>Date, Time, and Duration of All Startup and Shutdown Periods</u>	<u>N</u>	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, 307 , and/or 308	N	
<u>9-10-505.1</u>	<u>Reporting Requirements, Violations</u>	<u>N</u>	
<u>9-10-505.2</u>	<u>Reporting Requirements, Quarterly Reports</u>	<u>N</u>	
<u>9-10-505.2.1</u>	<u>Reporting Requirements, CEMS or Parametric Monitor Data</u>	<u>N</u>	
<u>9-10-505.2.2</u>	<u>Reporting Requirements, Exceedences</u>	<u>N</u>	
<u>9-10-505.3</u>	<u>Permit Application for Amendments to Alternate NOx Compliance Plan Pursuant to 9-10-308.4</u>	<u>N</u>	
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	
<u>9-10-604</u>	<u>Determination of Higher Heating Value</u>	<u>Y</u>	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
<u>9-10-502.1</u>	<u>Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification</u>	<u>Y</u>	
<u>9-10-502.2</u>	<u>Monitoring (fuel flow meter)</u>	<u>Y</u>	
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	
40 CFR Part 63 Subpart DDDDD	<u>NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)</u>		
<u>63.7485</u>	<u>Applicable to boilers and heaters located at a major source of HAP emissions</u>	<u>Y</u>	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	Y	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	Y	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7499	Subcategories of boiler and process heaters	Y	
63.7499(l)	Units designed to burn gas 1 fuels	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	Y	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	Y	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	Y	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	Y	
63.7510	Initial Compliance Requirements	Y	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016	Y	
63.7515	Tune-up Requirements	Y	
63.7515(d)	Conduct tune up in accordance with 63.7540(a) and comply with the period allowed between tune-ups	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	

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Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)	<u>Demonstrate continuous compliance with the work practice standards in Table 3</u>	Y	
63.7540(a)(10)	<u>Conduct tune-up as specified in (a)(10)(i) through (vi)</u>	Y	
63.7540(a)(13)	<u>If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup</u>	Y	
63.7545	<u>Notification Requirements</u>	Y	
63.7545(a)	<u>Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates</u>	Y	
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)</u>	Y	
63.7545(e)(1)	<u>A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned</u>	Y	
63.7545(e)(8)	<u>In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:</u>	Y	
63.7545(e)(8)(i)	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	Y	
63.7545(e)(8)(ii)	<u>"This facility has had an energy assessment performed according to 63.7530(e)."</u>	Y	
63.7550	<u>Reports</u>	Y	
63.7550(a)	<u>Submit each report in Table 9 that applies</u>	Y	
63.7550(b)	<u>Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).</u>	Y	
63.7550(c)	<u>Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply</u>	Y	
63.7550(c)(1)	<u>Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section</u>	Y	
63.7550(c)(5)	<u>Information required in compliance reports</u>	Y	
63.7550(c)(5)(i)	<u>Company and Facility name and address</u>	Y	
63.7550(c)(5)(ii)	<u>Process Unit information</u>	Y	
63.7550(c)(5)(iii)	<u>Date of report and beginning and ending dates of the reporting period</u>	Y	
63.7550(c)(5)	<u>The date of the most recent tune-up for each unit subject to only the</u>	Y	

IV. Source Specific Applicable Requirements

**Table IV - K
 Source-specific Applicable Requirements
 S20, STEAM BOILER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>)(xiv)</u>	<u>requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown</u>		
<u>63.7550(c)(5)(xvii)</u>	<u>Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report</u>	<u>Y</u>	
<u>63.7550(h)</u>	<u>Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)</u>	<u>Y</u>	
<u>63.7550(h)(3)</u>	<u>Electronic submission of reports</u>	<u>Y</u>	
<u>63.7555</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>63.7555(a)</u>	<u>Required records</u>	<u>Y</u>	
<u>63.7555(a)(1)</u>	<u>A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)</u>	<u>Y</u>	
<u>63.7560</u>	<u>Record Retention Requirements</u>	<u>Y</u>	
<u>63.7560(a)</u>	<u>Records must be in a form suitable and readily available for review according to 63.10(b)(1)</u>	<u>Y</u>	
<u>63.7560(b)</u>	<u>Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</u>	<u>Y</u>	
<u>63.7560(c)</u>	<u>Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years</u>	<u>Y</u>	
<u>63.7565</u>	<u>Applicability of General Provisions (Table 10)</u>	<u>Y</u>	
BAAQMD Condition 1240			
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.10	Requirement for Continuous Recording Oxygen Analyzers (2-1-403)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18f	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

**Table IV - K
 Source-specific Applicable Requirements
 S20, STEAM BOILER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part I.18h	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs from Facility ID B2626		
Part 1	Hourly firing limits (Regulation 2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition 21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305, 2-9-303.4.1)	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 7a.1	Annual tests at sources below 25 MMBtu/hr (9-10-502)	Y	
Part 7a.3	Source tests for shutdown sources	Y	
Part 7b	Source test results greater than NOx Box emission factor	Y	
Part 10	Records of source test data (9-10-502)	Y	
BAAQMD Condition 26250			
Part 1	Applicability, NOx and CO CEMS (Basis: Regulation 9-10-303, 305 & 308)	Y	
Part 2	NOx Source Tests (Basis: Regulation 9-10-502.1.2)	Y	
Part 2a	NOx Source Tests, Annual (Basis: Regulation 9-10-502.1.2)	Y	
Part 2c	NOx Source Tests, Shut Down Sources (Basis: Regulation 9-10-502.1.2)	Y	

IV. Source Specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S20, STEAM BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Procedure for NOx Source Test Result > NOx Emission Factor (Basis: Regulation 9-10-502.1.2)	<u>Y</u>	
Part 4	Procedure for NOx Emission Factor for Altered Devices (Basis: Regulation 9-10-502.1.2)	<u>Y</u>	
Part 6	CO Source Tests (Basis: Regulation 9-10-305)	<u>Y</u>	
Part 6a	CO Source Tests, Annual (Basis: Regulation 9-10-305)	<u>Y</u>	
Part 6c	CO Source Tests, Shut Down Sources (Basis: Regulation 9-10-305)	<u>Y</u>	
Part 8	Recordkeeping (Basis: Regulation 9-10-504)	<u>Y</u>	
Part 9	Refinery-wide Daily Mass NOx Emission Limit and Use of ANCP (Basis: Regulation 9-10-308)	<u>Y</u>	
Part 10	NOx Emission Calculations (Basis: Regulation 9-10-308)	<u>Y</u>	
Part 11	NOx Emission Calculations for Sources Out of Service or in Startup, Shutdown, or Curtailed Operation (Basis: Regulation 9-10-406)	<u>Y</u>	
Part 12	Quarterly Reports of ANCP Activity (Basis: Regulation 9-10-505.2)	<u>Y</u>	

Table IV - L
Source-specific Applicable Requirements
S21, STEAM BOILER

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)		
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 (06/28/199903/04/2009)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	

IV. Source Specific Applicable Requirements

**Table IV - L
 Source-specific Applicable Requirements
 S21, STEAM BOILER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (4/7/99) ** To be deleted upon expiration of NOx IERCs		
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	**
2-9-402	Complete IERC Banking Application	N	**
2-9-501	Monitoring and Record Keeping	N	**
BAAQMD Regulation 6, Rule 1	Particulate Matter General Requirements (12/5/20078/1/2018)		
6-1-114	Limited Exemptios	N	
6-1-114.1	Limited Exemption, TSP Limits for Gas-Fuel Fired Indirect Heat Exchangers	N	
6-1-114.3	Limited Exemption, 6-1-504 Source Test Requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight LimitationTSP Concentration Limits	N	
6-1-310.13	Heat Transfer OperationsTSP Concentration Limit (0.15 gr/dscf)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible EmissionsApplicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions ((9/4/199812/5/2007)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (12/15/201010/16/2013)		
9-10-113	Limited Exemption, Alternate NOx Compliance Plan	N	

IV. Source Specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S21, STEAM BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301	Emission Limit for Facility, NOx: 0.023 lb NOx/MMBTU	N	
9-10-301.3	Units in Start-up or Shutdown or Curtailed Operation	N	
9-10-301.4	Units Temporarily Out of Service	N	
9-10-303	<u>Interim</u> Emission Limit for Facility (Federal Requirements)	N	
9-10-305	CO emission limit	N	
9-10-308	Alternate NOx Compliance Plan, Daily Mass Emissions limit for Facility, NOx	N	
9-10-308.1	Daily NOx Limit	N	
9-10-308.2	Determine Compliance on a Daily Basis	N	
9-10-308.3	Baseline Daily NOx Emissions Adjustment	N	
9-10-308.4	Daily NOx Mass Emission Limit Adjustment	N	
9-10-405	Application for an Alternate NOx Compliance Plan	N	
9-10-406	Determination of Compliance	N	
9-10-407	Boiler, Steam Generator and Process Heater Status Report	N	
9-10-502	Monitoring for sources subject to 9-10-301, 303, 304, 305, 307 , or 307308	N	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent verification system	N	
9-10-502.1.2	Parametric Monitoring System to Monitor Compliance	N	
9-10-502.1.2.1	Annual Source Test for NOx	N	
9-10-502.2	Fuel flowmeters	N	
9-10-503	Modified Maximum Heat Input	Y	
9-10-504	Recordkeeping	N	
9-10-504.1	Records for sources subject to 9-10-301, 304, 305, 307, 308 , or 307403	N	
9-10-504.1.1	CEMS or Parametric Monitoring System Measurement Data	N	
9-10-504.1.2	Type, Heat Input, and HHV of Fuel and Injection Rate for Emission Control Systems	N	
9-10-504.1.3	Date, Time, and Duration of Startup, Shutdown, or Malfunction of Unit, Emission Control Equipment, or Monitoring Equipment	N	
9-10-504.1.4	CEMS Performance Tests, Evaluations, Calibrations, Checks, Adjustments, and Maintenance	N	
9-10-504.1.5	List of Sources Subject to 9-10-301 and 303	N	
9-10-504.1.6	On a Daily Basis, Total NOx Emissions and Total Heat Input for Sources Listed for 9-10-504.1.4	N	
9-10-504.1.7	Date, Time, and Duration of All Startup and Shutdown Periods	N	
9-10-505	Reporting for sources subject to 9-10-301, 303, 304, 305, 306, 307 ,	N	

IV. Source Specific Applicable Requirements

**Table IV - L
 Source-specific Applicable Requirements
 S21, STEAM BOILER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	and/or 307308		
9-10-505.1	Reporting Requirements, Violations	<u>N</u>	
9-10-505.2	Reporting Requirements, Quarterly Reports	<u>N</u>	
9-10-505.2.1	Reporting Requirements, CEMS or Parametric Monitor Data	<u>N</u>	
9-10-505.2.2	Reporting Requirements, Exceedences	<u>N</u>	
9-10-505.3	Permit Application for Amendments to Alternate NOx Compliance Plan Pursuant to 9-10-308.4	<u>N</u>	
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	
9-10-604	Determination of Higher Heating Value	<u>Y</u>	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/2008)		
9-10-502	Monitoring for sources subject to 9-10-303	Y	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	<u>Y</u>	
9-10-502.2	Monitoring (fuel flow meter)	<u>Y</u>	
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	
40 CFR Part 63 Subpart DDDDD	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	<u>Y</u>	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	<u>Y</u>	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	<u>Y</u>	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	<u>Y</u>	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	<u>Y</u>	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	<u>Y</u>	
63.7499	Subcategories of boiler and process heaters	<u>Y</u>	
63.7499(l)	Units designed to burn gas 1 fuels	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S21, STEAM BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500	<u>Emission limitations, work practice standards, and operating limits</u>	Y	
63.7500(a)	<u>Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)</u>	Y	
63.7500(a)(1)	<u>Meet the work practice standards in Table 3: tune-ups and one-time energy assessment</u>	Y	
63.7500(a)(3)	<u>At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	Y	
63.7500(e)	<u>Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4</u>	Y	
63.7505	<u>General requirements for compliance</u>	Y	
63.7505(a)	<u>Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation</u>	Y	
63.7510	<u>Initial Compliance Requirements</u>	Y	
63.7510(e)	<u>Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016</u>	Y	
63.7515	<u>Tune-up Requirements</u>	Y	
63.7515(d)	<u>Conduct tune up in accordance with 63.7540(a) and comply with the period allowed between tune-ups</u>	Y	
63.7530	<u>Initial Compliance Demonstration with work practice standards</u>	Y	
63.7530(e)	<u>Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment</u>	Y	
63.7540	<u>Demonstrate Continuous Compliance with the Work Practice Standards</u>	Y	
63.7540(a)	<u>Demonstrate continuous compliance with the work practice standards in Table 3</u>	Y	
63.7540(a)(10)	<u>Conduct tune-up as specified in (a)(10)(i) through (vi)</u>	Y	
63.7540(a)(10)(3)	<u>If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup</u>	Y	
63.7545	<u>Notification Requirements</u>	Y	
63.7545(a)	<u>Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates</u>	Y	
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)</u>	Y	

IV. Source Specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S21, STEAM BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	Y	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	Y	
63.7550(c)(5)	Information required in compliance reports	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process Unit information	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(xiv)	The date of the most recent tune-up for each unit subject to only the requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown	Y	
63.7550(c)(5)(xvii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	Y	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	Y	
63.7550(h)(3)	Electronic submission of reports	Y	
63.7555	Recordkeeping	Y	
63.7555(a)	Required records	Y	

IV. Source Specific Applicable Requirements

**Table IV - L
 Source-specific Applicable Requirements
 S21, STEAM BOILER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7555(a)(1)	<u>A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)</u>	<u>Y</u>	
63.7560	<u>Record Retention Requirements</u>	<u>Y</u>	
63.7560(a)	<u>Records must be in a form suitable and readily available for review according to 63.10(b)(1)</u>	<u>Y</u>	
63.7560(b)	<u>Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</u>	<u>Y</u>	
63.7560(c)	<u>Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years</u>	<u>Y</u>	
63.7565	<u>Applicability of General Provisions (Table 10)</u>	<u>Y</u>	
BAAQMD Condition 1240			
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.10	Requirement for Continuous Recording Oxygen Analyzers (2-1-403)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18f	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18h	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
BAAQMD Condition 19329	To be deleted upon expiration of NOx IERCs from Facility ID B2626		
Part 1	Hourly firing limits (Regulation 2-9-303.4.1, Cumulative Increase)	N	
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N	
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N	
Part 4	Recordkeeping (Regulation 2-9-303.3)	N	
BAAQMD Condition			

IV. Source Specific Applicable Requirements

**Table IV - L
 Source-specific Applicable Requirements
 S21, STEAM BOILER**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
21233			
Part 1	Affected sources, firing rates, use of ACP (9-10-301, 9-10-305, 2-9-303.4.1)	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 7a.1	Annual tests at sources below 25 MMBtu/hr (9-10-502)	Y	
Part 7a.3	Source tests for shutdown sources	Y	
Part 7b	Source test results greater than NOx Box emission factor	Y	
Part 10	Records of source test data (9-10-502)	Y	
BAAQMD Condition 26250			
Part 1	Applicability, NOx and CO CEMS (Basis: Regulation 9-10-303, 305 & 308)	Y	
Part 2	NOx Source Tests (Basis: Regulation 9-10-502.1.2)	Y	
Part 2a	NOx Source Tests, Annual (Basis: Regulation 9-10-502.1.2)	Y	
Part 2c	NOx Source Tests, Shut Down Sources (Basis: Regulation 9-10-502.1.2)	Y	
Part 3	Procedure for NOx Source Test Result > NOx Emission Factor (Basis: Regulation 9-10-502.1.2)	Y	
Part 4	Procedure for NOx Emission Factor for Altered Devices (Basis: Regulation 9-10-502.1.2)	Y	
Part 6	CO Source Tests (Basis: Regulation 9-10-305)	Y	
Part 6a	CO Source Tests, Annual (Basis: Regulation 9-10-305)	Y	
Part 6c	CO Source Tests, Shut Down Sources (Basis: Regulation 9-10-305)	Y	
Part 8	Recordkeeping (Basis: Regulation 9-10-504)	Y	
Part 9	Refinery-wide Daily Mass NOx Emission Limit and Use of ANCP (Basis: Regulation 9-10-308)	Y	
Part 10	NOx Emission Calculations (Basis: Regulation 9-10-308)	Y	
Part 11	NOx Emission Calculations for Sources Out of Service or in Startup, Shutdown, or Curtailed Operation (Basis: Regulation 9-10-405)	Y	
Part 12	Quarterly Reports of ANCP Activity (Basis: Regulation 9-10-505.2)	Y	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

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)		
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 (06/28/199903/04/2009)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/20078/1/2018)		
<u>6-1-114</u>	<u>Limited Exemptios</u>	<u>N</u>	
<u>6-1-114.1</u>	<u>Limited Exemption, TSP Limits for Gas-Fuel Fired Indirect Heat Exchangers</u>	<u>N</u>	
<u>6-1-114.2</u>	<u>Limited Exemption, TSP Limits for Gas-Fuel Fired Control Devices</u>	<u>N</u>	
<u>6-1-114.3</u>	<u>Limited Exemption, 6-1-504 Source Test Requirements</u>	<u>N</u>	
6-1-301	Ringelmann #1 Limitation	N	
<u>6-1-302</u>	<u>Opacity Limitation</u>	<u>N</u>	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation <u>TSP Concentration Limits</u>	N	
6-1-310.13	Heat Transfer Operations <u>TSP Concentration Limit (0.15 gr/dscf)</u>	N	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u> <u>Applicability of Test Methods</u>	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-118	Limited exemption, gas tight requirement	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems; Abatement efficiency >= 95%	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-502	Source test requirements 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; Approved Emission Control Systems for 8-5-306.1; Annual source tests	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; gas tight and >= 95% abatement	Y	
8-5-503	Portable hydrocarbon detector for 8-5-306	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1	Determination of Emissions for 8-5-306	Y	
BAAQMD Regulation 8, Rule 6	Organic Liquid Bulk Terminals And Bulk Plants (02/02/1994)		
8-6-301	Bulk Terminal Limitations	Y	
BAAQMD Regulation 9 Rule 10	NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (10/16/2013)		
9-10-110.6	Exemption: The requirements of Reg 9, Rule 10 do not apply to boilers, steam generators and process heaters that receive an	N	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Authority to Construct subject to BACT requirements for NOx on or after January 5, 1994		
BAAQMD Regulation 10	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-17	40 CFR, Part 60 Subpart Kb	Y	
10-51	40 CFR, Part 60 Subpart UU	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. (10/15/03) Requirements for Control Devices		
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(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	
40 CFR, Part 60, Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (10/17/0002/27/2014)		
60.470(a)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.470(b)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.472(c)	Asphalt storage tank opacity standard	Y	
60.473(c)	Parametric monitoring	Y	
60.473(d)	Exemption from quarterly reports	Y	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.474(c)(5)	Test methods and procedures; use Method 9 and 60.11 to determine opacity	Y	
<u>40 CFR Part 63 Subpart DDDDD</u>	<u>NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)</u>		
<u>63.7485</u>	<u>Applicable to boilers and heaters located at a major source of HAP emissions</u>	<u>Y</u>	
<u>63.7490(a)</u>	<u>Applicable to any new, reconstructed, or existing industrial boiler or process heater</u>	<u>Y</u>	
<u>63.7490(a)(1)</u>	<u>The affected source is the collection of all existing sources at a major source;</u>	<u>Y</u>	
<u>63.7490(d)</u>	<u>A boiler or process heater is existing if it is not new or reconstructed.</u>	<u>Y</u>	
<u>63.7495(b)</u>	<u>Comply with the work practice standards for existing boilers and process heaters by January 31, 2016</u>	<u>Y</u>	
<u>63.7495(d)</u>	<u>Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A</u>	<u>Y</u>	
<u>63.7499</u>	<u>Subcategories of boiler and process heaters</u>	<u>Y</u>	
<u>63.7499(l)</u>	<u>Units designed to burn gas 1 fuels</u>	<u>Y</u>	
<u>63.7500</u>	<u>Emission limitations, work practice standards, and operating limits</u>	<u>Y</u>	
<u>63.7500(a)</u>	<u>Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e).</u>	<u>Y</u>	
<u>63.7500(a)(1)</u>	<u>Meet the work practice standards in Table 3: tune-ups and one-time energy assessment</u>	<u>Y</u>	
<u>63.7500(a)(3)</u>	<u>At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
<u>63.7500(e)</u>	<u>Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4</u>	<u>Y</u>	
<u>63.7505</u>	<u>General requirements for compliance</u>	<u>Y</u>	
<u>63.7505(a)</u>	<u>Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation</u>	<u>Y</u>	
<u>63.7510</u>	<u>Initial Compliance Requirements</u>	<u>Y</u>	
<u>63.7510(e)</u>	<u>Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016</u>	<u>Y</u>	
<u>63.7515</u>	<u>Tune-up Requirements</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7515(d)	Conduct tune up in accordance with 63.7540(a) and comply with the period allowed between tune-ups	Y	
63.7530	Initial Compliance Demonstration with work practice standards	Y	
63.7530(e)	Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment	Y	
63.7540	Demonstrate Continuous Compliance with the Work Practice Standards	Y	
63.7540(a)	Demonstrate continuous compliance with the work practice standards in Table 3	Y	
63.7540(a)(10)	Tune-up Requirements	Y	
63.7540(a)(11)	For a boiler or process heater that has a heat input capacity of less than 10 mmbtu, conduct a biennial tune-up as specified in (a)(10)(i) through (vi) to demonstrate continuous compliance	Y	
63.7540(a)(13)	If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates	Y	
63.7545(e)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)	Y	
63.7545(e)(1)	A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned	Y	
63.7545(e)(8)	In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:	Y	
63.7545(e)(8)(i)	"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."	Y	
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to 63.7530(e)."	Y	
63.7550	Reports	Y	
63.7550(a)	Submit each report in Table 9 that applies	Y	
63.7550(b)	Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).	Y	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)	Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply	<u>Y</u>	
63.7550(c)(1)	Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section	<u>Y</u>	
63.7550(c)(5)	Information required in compliance reports	<u>Y</u>	
63.7550(c)(5)(i)	Company and Facility name and address	<u>Y</u>	
63.7550(c)(5)(ii)	Process Unit information	<u>Y</u>	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	<u>Y</u>	
63.7550(c)(5)(xi v)	The date of the most recent tune-up for each unit subject to only the requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown	<u>Y</u>	
63.7550(c)(5)(xv ii)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report	<u>Y</u>	
63.7550(h)	Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)	<u>Y</u>	
63.7550(h)(3)	Electronic submission of reports	<u>Y</u>	
63.7555	Recordkeeping	<u>Y</u>	
63.7555(a)	Required records	<u>Y</u>	
63.7555(a)(1)	A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)	<u>Y</u>	
63.7560	Record Retention Requirements	<u>Y</u>	
63.7560(a)	Records must be in a form suitable and readily available for review according to 63.10(b)(1)	<u>Y</u>	
63.7560(b)	Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	<u>Y</u>	
63.7560(c)	Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years	<u>Y</u>	
63.7565	Applicability of General Provisions (Table 10)	<u>Y</u>	
BAAQMD Condition 1240			
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S24, HOT OIL HEATER (H-4603)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18g	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18i	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement for S3, S5, S6, S7 S8, S12, S13, S26, S28, S37, S38, S51, S52, S53, S54, S59, S60, S61, S62, S63, S65, S67, S70 (Regulation 8-5-306, NSPS, cumulative increase, BACT, toxics)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)	Y	
Part II.58c	Allowable temperature excursions (2-1-403)	Y	
Part II.58d	Recordkeeping for allowable temperature excursions (2-1-403)	Y	
Part II.58e	Temperature excursion only applies when below limit (2-1-403)	Y	
Part II.58f	Operational conditions for temperature excursions (2-1-403)	Y	
Part V.1	NOx and CO limits (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - N
Source-specific Applicable Requirements
S31, RAIL CAR GAS OIL AND ASPHALT LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements(12/5/20078/1/2018)		
6-1-301	Ringelmann #1 Limitation	N	
6-1-302	Opacity 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 EmissionsApplicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/8/1998)		
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 6	Organic Liquid Bulk Terminals And Bulk Plants (02/02/94)		
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-301	Bulk Terminal Limitations	Y	
8-6-305	Delivery Vehicle Requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating Practices	Y	
8-6-501	Efficiency and Rate Determination	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-601	Efficiency and Rate Determination	Y	
BAAQMD Regulation 8, Rule 15	Organic Compounds, Emulsified and Liquid Asphalts (6/1/94)		
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	

IV. Source Specific Applicable Requirements

Table IV - N
Source-specific Applicable Requirements
S31, RAIL CAR GAS OIL AND ASPHALT LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18d	Estimates of NMHC emissions from loading racks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, cumulative increase, BACT, toxics)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c2-6-409.2.2, 2-6-414)	Y	
Part II.72	Vapor Pressure Requirement (Cumulative Increase, offsets, toxics)	Y	
Part II.72a	Monitoring for compliance with 8-6-306 for vapor tightness (2-6-503)	Y	
Part II.72b	Monitoring for compliance with 8-6-306 for leak-free equipment (2-6-503)	Y	
Part II.73	Vapor Pressure Requirement for Asphalt (Cumulative Increase, offsets, toxics)	Y	
Part II.74	Asphalt Throughput Requirement	Y	
Part II.75	Recordkeeping Requirement (Cumulative Increase)	Y	
Part II.94	Contain Emissions in Closed Vent System (Cumulative Increase)	Y	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - O
Source-specific Applicable Requirements
S34, TANK HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements(12/50/2007)		
<u>6-1-114</u>	<u>Limited Exemptios</u>	<u>N</u>	
<u>6-1-114.1</u>	<u>Limited Exemption, TSP Limits for Gas-Fuel Fired Indirect Heat Exchangers</u>	<u>N</u>	
<u>6-1-114.3</u>	<u>Limited Exemption, 6-1-504 Source Test Requirements</u>	<u>N</u>	
6-1-301	Ringelmann #1 Limitation	N	
<u>6-1-302</u>	<u>Opacity Limitation</u>	<u>N</u>	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation TSP Concentration Limits	N	
6-1-310.13	Heat Transfer Operations TSP Concentration Limit (0.15 gr/dscf)	N	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (7/17/0210/16/2013)		
9-10-110.1	Exemptions	Y	
<u>9-10-111</u>	<u>Limited Exemption, Small Units</u>	<u>N</u>	
<u>9-10-306</u>	<u>Small Unit Requirements</u>	<u>Y</u>	
<u>9-10-306.2</u>	<u>Annual Tune-Ups</u>	<u>Y</u>	
<u>9-10-504.2</u>	<u>Records of Annual Tune-Ups</u>	<u>Y</u>	
<u>9-10-605</u>	<u>Tune-Up Procedures</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - O
Source-specific Applicable Requirements
S34, TANK HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/2008)		
9-10-111	Limited Exemption, Small Units	<u>Y</u>	
40 CFR Part 63 Subpart DDDDD	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	<u>Y</u>	
63.7490(a)	Applicable to any new, reconstructed, or existing industrial boiler or process heater	<u>Y</u>	
63.7490(a)(1)	The affected source is the collection of all existing sources at a major source;	<u>Y</u>	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed.	<u>Y</u>	
63.7495(b)	Comply with the work practice standards for existing boilers and process heaters by January 31, 2016	<u>Y</u>	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	<u>Y</u>	
63.7499	Subcategories of boiler and process heaters	<u>Y</u>	
63.7499(l)	Units designed to burn gas 1 fuels	<u>Y</u>	
63.7500	Emission limitations, work practice standards, and operating limits	<u>Y</u>	
63.7500(a)	Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)	<u>Y</u>	
63.7500(a)(1)	Meet the work practice standards in Table 3: tune-ups and one-time energy assessment	<u>Y</u>	
63.7500(a)(3)	At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions	<u>Y</u>	
63.7500(e)	Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4	<u>Y</u>	
63.7505	General requirements for compliance	<u>Y</u>	
63.7505(a)	Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation	<u>Y</u>	
63.7510	Initial Compliance Requirements	<u>Y</u>	
63.7510(e)	Complete the initial tune-up following 63.7540(a)(10)(i) through	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - O
Source-specific Applicable Requirements
S34, TANK HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>(vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016</u>		
63.7515	<u>Tune-up Requirements</u>	<u>Y</u>	
63.7515(d)	<u>Conduct tune up in accordance with 63.7540(a) and comply with the period allowed between tune-ups</u>	<u>Y</u>	
63.7530	<u>Initial Compliance Demonstration with work practice standards</u>	<u>Y</u>	
63.7530(e)	<u>Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment</u>	<u>Y</u>	
63.7540	<u>Demonstrate Continuous Compliance with the Work Practice Standards</u>	<u>Y</u>	
63.7540(a)	<u>Demonstrate continuous compliance with the work practice standards in Table 3</u>	<u>Y</u>	
63.7540(a)(10)	<u>Tune-up Requirements</u>	<u>Y</u>	
63.7540(a)(11)	<u>For a boiler or process heater that has a heat input capacity of less than 10 mmbtu, conduct a biennial tune-up as specified in (a)(10)(i) through (vi) to demonstrate continuous compliance</u>	<u>Y</u>	
63.7540(a)(13)	<u>If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup</u>	<u>Y</u>	
63.7545	<u>Notification Requirements</u>	<u>Y</u>	
63.7545(a)	<u>Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates</u>	<u>Y</u>	
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)</u>	<u>Y</u>	
63.7545(e)(1)	<u>A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned</u>	<u>Y</u>	
63.7545(e)(8)	<u>In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:</u>	<u>Y</u>	
63.7545(e)(8)(i)	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	<u>Y</u>	
63.7545(e)(8)(ii)	<u>"This facility has had an energy assessment performed according to 63.7530(e)."</u>	<u>Y</u>	
63.7550	<u>Reports</u>	<u>Y</u>	
63.7550(a)	<u>Submit each report in Table 9 that applies</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - O
Source-specific Applicable Requirements
S34, TANK HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)	<u>Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).</u>	Y	
63.7550(c)	<u>Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply</u>	Y	
63.7550(c)(1)	<u>Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section</u>	Y	
63.7550(c)(5)	<u>Information required in compliance reports</u>	Y	
63.7550(c)(5)(i)	<u>Company and Facility name and address</u>	Y	
63.7550(c)(5)(ii)	<u>Process Unit information</u>	Y	
63.7550(c)(5)(iii)	<u>Date of report and beginning and ending dates of the reporting period</u>	Y	
63.7550(c)(5)(xiv)	<u>The date of the most recent tune-up for each unit subject to only the requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown</u>	Y	
63.7550(c)(5)(xvii)	<u>Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report</u>	Y	
63.7550(h)	<u>Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)</u>	Y	
63.7550(h)(3)	<u>Electronic submission of reports</u>	Y	
63.7555	<u>Recordkeeping</u>	Y	
63.7555(a)	<u>Required records</u>	Y	
63.7555(a)(1)	<u>A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)</u>	Y	
63.7560	<u>Record Retention Requirements</u>	Y	
63.7560(a)	<u>Records must be in a form suitable and readily available for review according to 63.10(b)(1)</u>	Y	
63.7560(b)	<u>Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</u>	Y	
63.7560(c)	<u>Keep records on site, or they must be accessible from on site (e.g.,</u>	Y	

IV. Source Specific Applicable Requirements

Table IV - O
Source-specific Applicable Requirements
S34, TANK HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years</u>		
<u>63.7565</u>	<u>Applicability of General Provisions (Table 10)</u>	<u>Y</u>	
BAAQMD Condition 1240			
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18g	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18i	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	

Table IV - P
Source-specific Applicable Requirements
S54, ASPHALT LOADING RACK

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 #1 Limitation	N	
<u>6-1-302</u>	<u>Opacity Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
<u>6-1-310</u>	<u>Particulate Weight Limitation</u>	<u>N</u>	
6-1-401	Appearance of Emissions	N	
6-1-601	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity</u>	N	

IV. Source Specific Applicable Requirements

	Instruments and Appraisal of Visible Emissions Applicability of Test Methods		
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
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 15	Organic Compounds, Emulsified and Liquid Asphalts (6/1/94)		
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18d	Estimates of NMHC emissions from loading racks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, cumulative increase, BACT, toxics)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)	Y	
Part II.71	Vapor Pressure and Kerosene Throughput Requirement (Cumulative Increase, offsets)	Y	
Part II.74	Asphalt Throughput Requirement	Y	
Part II.75	Recordkeeping Requirement (Cumulative Increase)	Y	
Part II.94	Contain Emissions in Closed Vent System (Cumulative Increase)	Y	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	
Part IV.2	Asphalt truck inspections. (1-301)	N	
Part IV.3	Notification to trucking companies (1-301)	N	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/20078/1/2018)		
6-1-303	Ringelmann #2 Limitation	N	
6-1-303.24	Standby sources of power	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation TSP Concentration Limits	N	
6-1-310.1	TSP Concentration Limit (0.15 gr/dscf)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-303	Ringelmann #2 Limitation	Y	
6-303.1	Standby sources of power	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/95)		
9-1-304	Fuel Burning (Liquid and Solid fuels)	Y	
BAAQMD · Regulation 9, Rule 8	Nitrogen Oxides And Carbon Monoxide From Stationary Internal Combustion Engines 07/25/2007)		
9-8-330	Emergency Standby Engines, Hours of Operation	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)		

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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-sue emergency standby stationary diesel-fueled CI engines	N	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (02/27/2014)		
63.6585	Applicability	Y	
63.6585(a)	Existing stationary RICE	Y	
63.6585(b)	Applicable to major source of HAPs	Y	
63.6590	Source Applicability	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)(1)	An Existing stationary RICE is:	Y	
63.6590(a)(1)(ii)	Rating ≤ 500 bhp located at major source of HAP emissions, constructed before 6/12/2006	Y	
63.6595	Compliance Timeline	Y	
63.6595(a)	For affected sources:	Y	
63.6595(a)(1)	An existing compression ignition (CI) stationary RICE with ≤ 500 bhp located at a major source of HAP emissions, comply with applicable operating limitations and other requirements no later than May 3, 2013	Y	
63.6595(c)	Meet the applicable notification requirements in 63.6645 and 40 CFR 63 Subpart A	Y	
63.6602	For existing RICE with ≤ 500 bhp located at a major source of HAPs, comply with the requirements in Table 2c, Item 1: Except during periods of startup:	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<ul style="list-style-type: none"> - <u>a. Change oil and filter every 500 hours of operation or annually, whichever comes first (or utilize an oil analysis program per 63.6625(i) or (j) to extend the oil change requirement;</u> - <u>b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and</u> - <u>c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</u> <p><u>During periods of startup:</u></p> <ul style="list-style-type: none"> - <u>a. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes</u> <p><u>If the RICE is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the prescribed schedule, the work can be delayed until the emergency is over. The work should be performed as soon as practicable after the emergency has ended. The facility must report any failure to perform the work practice on the schedule prescribed.</u></p>		
<u>63.6605</u>	<u>General requirements:</u>	<u>Y</u>	
<u>63.6605(a)</u>	<u>Comply with the operating limitations at all times</u>	<u>Y</u>	
<u>63.6605(b)</u>	<u>General duty: Operate and maintain the RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
<u>63.6625</u>	<u>Monitoring, installation, collection, operation, and maintenance requirements:</u>	<u>Y</u>	
<u>63.6625(e)</u>	<u>Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the RICE in a manner consistent with good air pollution control practice for minimizing emissions for:</u>		
<u>63.6625(e)(2)</u>	<u>An existing emergency stationary RICE with a site rating of ≤</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>500 hp located at a major source of HAP emissions</u>		
<u>63.6625(f)</u>	<u>Install a non-resettable hour meter</u>	<u>Y</u>	
<u>63.6625(h)</u>	<u>Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes</u>	<u>Y</u>	
<u>63.6625(i)</u>	<u>Oil Analysis Program Option</u>	<u>Y</u>	
<u>63.6640</u>	<u>Compliance Demonstration</u>	<u>Y</u>	
<u>63.6640(a)</u>	<u>For existing emergency RICE with ≤ 500 bhp located at a major source of HAPs, comply with Table 6, Item 9a:</u> <ul style="list-style-type: none"> <u>- i. Operating and maintaining the RICE according to the manufacturer's emission-related operation and maintenance instructions; or</u> <u>- ii. Develop and follow a facility-developed maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions</u> 	<u>Y</u>	
<u>63.6640(f)</u>	<u>For emergency stationary RICE, operate the engine according to (f)(1) through (f)(4). To qualify as an emergency RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours/yr, as described in (f)(1) through (f)(4) is prohibited</u>	<u>Y</u>	
<u>63.6640(f)(1)</u>	<u>There is no time limit on the use of the engine during emergency situations</u>	<u>Y</u>	
<u>63.6640(f)(2)</u>	<u>The emergency engine may be operated for a maximum of 100 hrs/yr as allowed by (f)(2)(i) and (f)(3):</u>	<u>Y</u>	
<u>63.6640(f)(2)(i)</u>	<u>Operations for maintenance checks and readiness testing, provided the tests are recommended by the government, manufacturer, or vendor.</u>	<u>Y</u>	
<u>63.6640(f)(3)</u>	<u>Operations for non-emergency situations for up to 50 hrs/yr in non-emergency situations for maintenance and testing</u>	<u>Y</u>	
<u>63.6645</u>	<u>Notification Requirements</u>	<u>Y</u>	
<u>63.6645(a)</u>	<u>Notification requirements in 63 Subpart A:</u>	<u>Y</u>	
<u>63.6645(a)(5)</u>	<u>Notifications are not required for an existing stationary emergency RICE</u>	<u>Y</u>	
<u>63.6655</u>	<u>Recordkeeping Requirements</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6655(a)	If you must comply with the operating limitations, keep the following records:	<u>Y</u>	
63.6655(d)	Maintain required records identified in Table 6, Item 9a: a. Work Management Practices: i. Operating and maintaining the RICE according to manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow site-specific maintenance plan	<u>Y</u>	
63.6655(e)	Maintain required records of maintenance to demonstrate that the RICE was operated and maintained as required according to your own maintenance plan for the following:	<u>Y</u>	
63.6655(e)(2)	Existing stationary emergency RICE	<u>Y</u>	
63.6655(f)	Maintain records of the hours of operation as recorded by the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours for non-emergency operation for:		
63.6655(f)(1)	An existing emergency stationary RICE with a site rating of ≤ 500 brake hp located at a major source of HAP emissions that does not meet the standards applicable to non-emergency situations	<u>Y</u>	
63.6660	Recordkeeping Requirements: Form and Duration	<u>Y</u>	
63.6660(a)	Records must be in a form suitable and readily available for expeditious review according to 63.10(b)(1)	<u>Y</u>	
63.6660(b)	Keep each record for 5 years following the date of each occurrence, measurement, maintenance, correction action, report, or record, as specified in 63.10(b)(1)	<u>Y</u>	
63.6660(c)	Keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 63.10(b)(1)	<u>Y</u>	
BAAQMD Condition 1240			
Part I.6	Prohibition against combustion of fuel oil or diesel fuel except at S68 (cumulative increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18g	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18i	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
BAAQMD Condition 18796			
Part 1	Sulfur content of fuel (Cumulative Increase)	Y	
BAAQMD Condition 22851			
Part 1	Emergency standby engine operations ("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(d)(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(f))	Y	

Table IV - R
Source-specific Applicable Requirements
S69-ASPHALT ADDITIVE LOADING BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6,	Particulate Matter , General Requirements (<u>12/5/20078/1/2018</u>)		

IV. Source Specific Applicable Requirements

Table IV - R
Source-specific Applicable Requirements
S69-ASPHALT ADDITIVE LOADING BIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 1			
6-1-301	Ringelmann #1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation <u>TSP Concentration Limits</u>	N	
6-1-310.1	TSP Concentration Limit (0.15 gr/dscf)	N	
6-1-311	General Operations <u>TSP Weight Limits</u>	N	
6-1-311.1	TSP Weight Limit (Table 6-1-311.1)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions <u>Applicability of Test Methods</u>	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Condition 20278			
Part 2	Throughput limit (2-2-212, Cumulative Increase)	Y	
Part 4	Public nuisance (1-301)	N	
Part 6	Recordkeeping (2-6-501)	Y	
Part 7	Visible Emissions checks (2-6-409.2)	Y	

IV. Source Specific Applicable Requirements

Table IV - S
Source-specific Applicable Requirements
S70-ASPHALT ADDITIVE MIXING TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements 12/5/20078/1/2018)		
6-1-301	Ringelmann #1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-311	General Operations	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 8, Rule 5	Organic Compounds, Storage of Organic Liquids (10/18/2006)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
SIP Regulation 8, Rule 5	Storage of Organic Liquids (06/05/2003)		
8-5-117	Exemption, Low Vapor Pressure	Y	
BAAQMD Regulation 8, Rule 15	Organic Compounds, Emulsified and Liquid Asphalts (6/1/94)		
8-15-305	Prohibition of Manufacture and Sale	Y	
8-15-501	Records	Y	
BAAQMD Regulation 10	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-51	40 CFR, Part 60 Subpart UU	Y	

IV. Source Specific Applicable Requirements

Table IV - S
Source-specific Applicable Requirements
S70-ASPALT ADDITIVE MIXING TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR, Part 60 Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (40/17/0002/27/2014)		
60.470(a)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.470(b)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.472(c)	Asphalt storage tank opacity standard	Y	
60.473(c)	Parametric monitoring	Y	
60.473(d)	Exemption from quarterly reports	Y	
60.474(c)(5)	Test methods and procedures; use Method 9 and 60.11 to determine opacity	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18c	Estimates of NMHC emissions from tanks (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement (Regulation 8-5-306, NSPS, cumulative increase, BACT, toxics)	Y	
Part II.49	Prohibition against cutback asphalt (Toxics)	Y	
Part II.50	Vapor Pressure Limit (Cumulative Increase, Offsets)	Y	
Part II.58	Recordkeeping Requirement (Cumulative Increase)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)	Y	
Part II.94	Contain Emissions in Closed Vent System (Cumulative Increase)	Y	
Part II.95	Closed Vent System Recordkeeping Requirements (Cumulative Increase)	Y	
Part II.96	Closed Vent System P/V Valve VOC limit (Cumulative Increase)	Y	
BAAQMD Condition 20278			
Part 1	Throughput limit (2-2-212, Cumulative Increase)	Y	
Part 4	Public nuisance (1-301)	N	

IV. Source Specific Applicable Requirements

Table IV - S
Source-specific Applicable Requirements
S70-ASPHALT ADDITIVE MIXING TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Recordkeeping (2-6-501)	Y	

Table IV- T0
Fugitive Sources: Applicable Requirements

(This table is a cross-reference between the asphalt plant equipment and the various fugitive applicable requirements. The actual requirements are in the next table.)

Process Unit	BAAQMD & SIP Regulation 8, Rule 18 Note 5	NSPS 40 CFR, Part 60 Subpart GGG; BAAQMD Reg 10-59[40 CFR Part 60, Subpart VV] Note 6	NSPS 40 CFR, Part 60 Subparts GGGa [40 CFR Part VVa] Note 7	NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg 11-12 Note 2 Note 3	NESHAPS 40 CFR, Part 63 Subpart CC; [40 CFR, Part 60 Subpart VV] Note 1
S1, S2, S4, and S23 Crude Tankage receipt piping. (Note 4)	X				
S1, S2, S4, and S23 Crude Tankage feed piping to S18 Crude Unit. (Note 4)	X				X (1)
S9 Naphtha Tank fill line and naphtha transfer line from S9 to Refinery	X			X (3)	X (1)
S16, Truck Loading Rack - Heavy Vacuum Gas Oil	X				
S17, Loading Racks – Asphalt	X				
S18 Crude Unit, including Atmospheric Tower (T-1), KD stripped tower (T-2),	X				X (1)

IV. Source Specific Applicable Requirements

Table IV- T0

Fugitive Sources: Applicable Requirements

(This table is a cross-reference between the asphalt plant equipment and the various fugitive applicable requirements. The actual requirements are in the next table.)

Process Unit	BAAQMD & SIP Regulation 8, Rule 18 Note 5	NSPS 40 CFR, Part 60 Subpart GGG; BAAQMD Reg 10-59[40 CFR Part 60, Subpart VV] Note 6	NSPS 40 CFR, Part 60 Subparts GGGa [40 CFR Part VVa] Note 7	NESHAPS 40 CFR Part 61, Subpart FF; BAAQMD Reg 11-12 Note 2 Note 3	NESHAPS 40 CFR, Part 63 Subpart CC; [40 CFR, Part 60 Subpart VV] Note 1
crude charge circuit, overhead off-gas system,					
S18 Vacuum Tower (T-3) overhead gas system	X				X (1)
S18 Booster Compressor	X		X		
S31, Rail Car Asphalt Loading Rack	X				
S54, Asphalt Loading Rack	X				
All Other Piping, including natural gas piping	X				X (1)

Notes:

- (1) Fugitive components that are subject to the equipment leak standards of 40 CFR, Part 63 Subpart CC must comply with the equipment leak standards set forth in 40 CFR, Part 60 Subpart VV.
- (2) The benzene wastewater streams generated at the Asphalt Plant are routed to the Refinery (B2626) Wastewater Treatment Plant. These streams are subject to 40 CFR Part 63 Subpart CC and comply with the provisions of 40 CFR, Part 61 Subpart FF in 61.342(e)(2) for uncontrolled aqueous wastes. The Asphalt Plant wastewater treatment equipment is decommissioned.
- (3) The naphtha stream generated at the Asphalt Plant and transferred by pipeline to the Refinery (B2626) is a benzene waste subject to 40 CFR, Part 61 Subpart FF. It complies with the provisions of 61.342(e)(1) for controlled non-aqueous wastes. Tank 4607 (S9), the tank fill line, and the transfer line from the tank to the Refinery are all subject to 40 CFR, Part 61 Subpart FF. S9 complies with the requirements of 61.351 for internal floating roof tanks. The fill and transfer lines are individual drain systems subject to 61.346(b)(3).
- (4) Sources S1, S2, S4, and S23 Crude Storage Tanks are part of Facility B5574. Piping is part of facility A0901 as shown in Table IV-W0.
- (5) Sources subject to BAAQMD Regulation 8-18 are also subject to any applicable requirements of SIP BAAQMD Regulation 8-18 when the SIP and BAAQMD versions of this rule are not the same.
- (6) Sources subject to 40 CFR, Part 60 Subpart GGG are the groups of equipment at petroleum refinery process units as defined in that regulation 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. The equipment subject to 40 CFR Part 60, Subpart GGG that overlaps with 40 CFR Part 63, Subpart CC 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.
- (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, except as allowed in 40 CFR 60.590a(d). In accordance with 40 CFR 60.590a(d), 40 CFR 60 Subpart GGGa does not apply to any facility already subject to 40 CFR 60 Subpart GGG, even if that facility is reconstructed or modified after November 7, 2006. Equipment means each valve, pump, pressure relief device, sampling connection system,

IV. Source Specific Applicable Requirements

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. The equipment subject to 40 CFR Part 60, Subpart GGGa that overlaps 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.

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 18	Organic Compounds-Equipment Leaks (9/5/2004 12/16/2015)		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	N Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
<u>8-18-119</u>	<u>Limited Exemption, Open-ended Valve or Line</u>	<u>N</u>	
<u>8-18-120</u>	<u>Limited Exemption, Non-repairable Equipment</u>	<u>N</u>	
8-18-301	General Standard	Y	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure relief devices	N Y	
8-18-306	Non-repairable equipment	N	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
<u>8-18-309</u>	<u>Open-ended Valve or Line</u>	<u>N</u>	
<u>8-18-310</u>	<u>Recurrent Leaks</u>	<u>N</u>	
<u>8-18-311</u>	<u>Mass Emissions</u>	<u>N</u>	
8-18-401	Inspection	N	
8-18-402	Identification	N Y	
8-18-403	Visual inspection schedule	N Y	
8-18-404	Alternate inspection schedule	N Y	
<u>8-18-407</u>	<u>Recurrent Leak Schedule</u>	<u>N</u>	
8-18-501	Portable Hydrocarbon Detector	N Y	
8-18-502	Records	N	
<u>8-18-502.6</u>	<u>Records, P&IDs with Heavy Liquid Service Components</u>	<u>N</u>	
8-18-503	Reports	N	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>8-18-503.5</u>	<u>Reports, Submit Records for 8-18-502.6 Annually</u>	<u>N</u>	
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 (6/5/2003)		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
<u>8-18-113</u>	<u>Limited Exemption, Initial Boiling Point</u>	<u>Y</u>	
8-18-302	Valves	Y	
8-18-303	Pumps and compressors	Y	
8-18-304	Connections	Y	
8-18-304.2	Connections subject to District-approved inspection program	Y	
<u>8-18-305</u>	<u>Pressure Relief Devices</u>	<u>Y</u>	
8-18-306	Non-repairable equipment	Y	
8-18-306.1	Repair at next scheduled turnaround or five years	Y	
8-18-306.2	Percentage of equipment awaiting repair	Y	
8-18-401	Inspection	Y	
<u>8-18-402</u>	<u>Identification</u>	<u>Y</u>	
<u>8-18-403</u>	<u>Visual Inspection Schedule</u>	<u>Y</u>	
<u>8-18-404</u>	<u>Alternate Inspection Schedule</u>	<u>Y</u>	
<u>8-18-501</u>	<u>Portable Hydrocarbon Detector</u>	<u>Y</u>	
8-18-502	Records	Y	
8-18-603	Determination of Control Efficiency	Y	
8-18-604	Determination of Mass Emissions	Y	
BAAQMD Regulation 10	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-52	40 CFR, Part 60 Subpart VV	Y	
10-59	40 CFR, Part 60 Subpart GGG	Y	
40 CFR, Part 60 Subpart VV	Standards of Performance for Equipment Leaks of VOC in SOCFI before 11/7/2006 (Fugitive Emission Sources)		

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	(06/02/200812/14/00) Applicability specified-determined by 40 CFR, Part 60 Subpart GGG and 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: Compressor	Y	
60.482-4	Standards: Pressure relief devices in gas/vapor service	Y	
60.482-5	Standards: Sampling connecting systems	Y	
60.482-6	Standards: Open ended valves or lines	Y	
60.482-7	Standards : Valves in gas/vapor service and in light liquid service:	Y	
60.482-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor quarterly. If leak >10,000 ppm is detected, resume monthly monitoring	Y	
60.482-7(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7(f)	Designated no-emissions (< 500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	Y	
60.482-7(h)	Exemption for valves designated difficult to monitor—must be monitored annually	Y	
60.482-8	Standards: Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors	Y	
60.482-9	Standards: Delay of repairs	Y	
60.482-9(a)	Delay of repairs	Y	
60.482-9(b)	Repair may be delayed for isolated equipment	Y	
60.482-9(c)	Delay of repair for valves is only allowed under certain circumstances	Y	
60.482-9(d)	Delay of repairs for pumps	Y	
60.482-9(d)(1)	Only dual mechanical seal pumps qualify for delay of repair	Y	
60.482-9(d)(2)	Pump leaks must be repaired within 6 months	Y	
60.482-9(f)	Leaking pumps or valves in service during delay of repair are considered repaired and no longer subject to delay of repair	Y	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	requirements if two consecutive monthly monitoring less than the leak definition.		
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	
60.484	Equivalence of means of emission limitation	Y	
60.485	Test Methods and Procedures	Y	
60.486	Record keeping	Y	
60.487	Reporting Requirements	Y	
40 CFR, Part 60 Subpart VVa	Standards of Performance for Equipment Leaks of VOC in SOCOMI after 11/7/2006(Fugitive Emission Sources)-(12/14/00) (06/02/2008) Applicability specifieddetermined by 40 CFR, Part 60 Subpart GGG-a		
60.482-1a	General Standards	Y	
60.482-2a	Pump Standards:	Y	
60.482-3a	Compressor Standards	Y	
60.482-4a	Requirements for Pressure Relief Devices in gas/vapor service	Y	
60.482-5a	Requirements for Sampling connecting systems	Y	
60.482-6a	Requirements for Open-ended valves or lines	Y	
60.482-7a	Valve Standards:	Y	
60.482-7a(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring	Y	
60.482-7a(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7a(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	Y	
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)	Delay of repairs	Y	
60.482-9a(b)	Repair may be delayed for isolated equipment	Y	
60.482-9a(c)	Delay of repair for valves is only allowed under certain	Y	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	circumstances		
60.482-9a(d)	Delay of repairs for pumps	Y	
60.482-9a(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	Y	
60.482-9a(d)(2)	Pump leaks must be repaired within 6 months	Y	
60.482-10a	Requirements for closed-vent systems and control devices	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	Record keeping	Y	
60.487a	Reporting	Y	
40 CFR, Part 60 Subpart GGG	Standards of Performance for Equipment Leaks at Petroleum Refineries After January 4, 1983 and on or before November 7, 2006 (6/2/2008)		
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: A compressor is an affected facility	Y	
60.590(a)(3)	Applicability: Group of all equipment (60.591 definition) within a process unit is an affected facility	Y	
60.590(b)	Applicability : Dates of construction, reconstruction, and modification	Y	
60.590(c)	Applicability : Limitation of modifications	Y	
60.590(e)	Stay of standards [process unit definition in 60.591] and effective definition of process unit	Y	
60.591	Definitions	Y	
60.592	Standards	Y	
60.592(a)	Comply with 40 CFR, Part 60 Subpart VV, 60.482-1 through 60.482-10 no later than 180 days after initial startup of affected facility	Y	
60.592(b)	Alternatives to 40 CFR, Part 60 Subpart VV ; 60.482-7 (valve standards)	Y	
60.592(b)(1)	OPTION 1 : May elect to comply with 40 CFR, Part 60 Subpart VV, 60.483-1	Y	
60.592(b)(2)	OPTION 2 : May elect to comply with 40 CFR, Part 60 Subpart VV,	Y	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	60.483-2		
60.592(c)	Equivalency application	Y	
60.592(d)	Comply with 40 CFR, Part 60 Subpart VV, 60.485 except as provided in 60.593	Y	
60.592(e)	Comply with 40 CFR, Part 60 Subpart VV, 60.486 and 60.487	Y	
60.593	Exceptions	Y	
60.593(a)	Allowable exceptions to 40 CFR, Part 60 Subpart VV	Y	
60.593(b)(1)	Exception for compressors in hydrogen service	Y	
60.593(b)(2)	Compressors in hydrogen service - Determination requirements	Y	
60.593(b)(3)(i)	Compressors in hydrogen service – Engineering judgment. Method for dispute resolution	Y	
60.593(b)(3)(ii)	Compressors in hydrogen service – procedure for modifying service determination	Y	
60.593(c)	Allowable exceptions for existing reciprocating compressors	Y	
60.593(d)	Allowable methods for determining light liquid service	Y	
60.593(f)	Exceptions for open-ended valves or lines containing asphalt	Y	
40 CFR, Part 60 Subpart GGGa	Standards of Performance for Equipment Leaks at Petroleum Refineries After November 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: A compressor is an affected facility	Y	
60.590a(a)(3)	Applicability: Group of all equipment (60.591 definition) within a process unit is an affected facility	Y	
60.590a(b)	Applicability : Dates of construction, reconstruction, and modification	Y	
60.590a(c)	Applicability : Limitation of modifications	Y	
60.590a(e)	Stay of standards [process unit definition in 60.591] and effective definition of process unit	Y	
60.591a	Definitions	Y	
60.592a	Standards	Y	
60.592a(a)	Comply with 40 CFR, Part 60 Subpart VVa, 60.482-1a through 60.482-10a no later than 180 days after initial startup of affected facility	Y	
60.592a(b)	Alternatives to 40 CFR, Part 60 Subpart VVa; 60.482-7a (valve standards)	Y	
60.592a(b)(1)	OPTION 1 : May elect to comply with 40 CFR, Part 60 Subpart	Y	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	VVa, 60.483-1a		
60.592a(b)(2)	OPTION 2 : May elect to comply with 40 CFR, Part 60 Subpart VVa, 60.483-2a	Y	
60.592a(c)	Equivalency application	Y	
60.592a(d)	Comply with 40 CFR, Part 60 Subpart VVa, 60.485a except as provided in 60.593	Y	
60.592a(e)	Comply with 40 CFR, Part 60 Subpart VVa, 60.486a and 60.487a	Y	
60.593a	Exceptions	Y	
60.593a(a)	Allowable exceptions to 40 CFR, Part 60 Subpart VVa	Y	
60.593a(b)(1)	Exception for compressors in hydrogen service	Y	
60.593a(b)(2)	Compressors in hydrogen service - Determination requirements	Y	
60.593a(b)(3)(i)	Compressors in hydrogen service – Engineering judgement. Method for dispute résolution	Y	
60.593a(b)(3)(ii)	Compressors in hydrogen service – procedure for modifying service determination	Y	
60.593a(c)	Allowable exceptions for existing reciprocating compressors	Y	
60.593a(d)	Allowable methods for determining light liquid service	Y	
60.593a(f)	Exceptions for open-ended valves or lines containing asphalt	Y	
60.593a(g)	Exceptions for connectors in gas/vapor or light liquid service	Y	
40 CFR, Part 61 Subpart FF	NESHAP, Benzene Waste Operations (02/27/20144/03) Requirements for Equipment Leaks		
61.345(a)(1)(i)	Standards: Containers, Covers and Openings, no detectable emissions (< 500 ppmv); annual inspection	Y	
61.345(b)	Standards: Containers, Covers and Openings, quarterly visible inspection for leaks	Y	
61.345(c)	Standards: Containers, Covers and Openings, repair requirements if detectable emissions measured or leak detected	Y	
61.350	Delay of repair	Y	
61.355(h)	Test methods for no detectable emissions	Y	
61.356(h)	Records of tests for no detectable emissions	Y	
61.357(d)(8)	Reports of inspections where detectable emissions measured	Y	
40 CFR, Part 63 Subpart CC	National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (07/13/201606/30/2010)		
63.640(a)	Applicability	Y	
63.640(c)(4)	Applicability and Designation of Affected source—Equipment	Y	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Leaks. Equipment leaks are emissions of organic hazardous air pollutants from a pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, valve, or instrumentation system “in organic hazardous air pollutant service” as defined in this section. Vents from wastewater collection and conveyance systems (including, but not limited to wastewater drains, sewer vents, and sump drains), tank mixers, and sample valves on storage tanks are not equipment leaks.		
63.640(l)	Additional unit meeting criteria in 40 CFR 63.640(c)(1)-(8)	Y	
63.640(l)(4)	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.	Y	
63.640(p)	Overlap of subpart CC with other regulations for equipment leaks.	Y	
63.640(p)(1)	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	Y	
63.640(p)(2)	Overlap with 40 CFR Part 60 Subpart GGGa – comply with Subpart GGGa	Y	
63.641	Definitions	Y	
63.642(e)	Keep records for 5 years	Y	
63.648	Equipment Leak Standards	Y	
63.648(a)	Equipment Leak Standards--Existing source comply with 40 CFR, Part 60 Subpart VV and 63.648(b).	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	

IV. Source Specific Applicable Requirements

**Table IV – T1
 Applicable Requirements
 COMPONENTS**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.648(i)	Equipment Leak Standards—Exemption – certain reciprocating compressors	Y	
63.648(j)	Equipment Leak Standards— Pressure relief devices	Y	
63.648(j)(4)	Exemption for PRDs routed to a control device	Y	1/30/2019
63.655(d)	Recordkeeping and reporting – Equipment leaks	Y	
63.655(d)(1)	Recordkeeping and reporting – Equipment leaks; Comply with 60.486 and 60.487 except for 63.655(d)(1)(i)	Y	
63.655(d)(1)(i)	Recordkeeping and reporting – Equipment leaks; Comply with 60.486 and 60.487 except record required only of name but not signature of decision maker for delay of repair	Y	
63.655(d)(3)	Recordkeeping and reporting – Equipment leaks; Records of hydrogen service determinations	Y	
63.655(d)(4)	Recordkeeping and reporting – Equipment leaks; Records of leakless valves	Y	
63.655(d)(5)	Recordkeeping and reporting – Equipment leaks; Records of low use equipment	Y	
63.655(d)(6)	Recordkeeping and reporting – Equipment leaks; Records of exempt reciprocating pumps and compressors	Y	
63.655(g)(10)	Reporting and Recordkeeping Requirements - Equipment Leaks; Periodic reports for pressure relief devices	Y	
63.655(i)(11)	Recordkeeping; Records of pressure relief devices	Y	
BAAQMD Condition 1240			
Part I.14	Facility Limits (cumulative increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18b	Fugitive NMHC Emission Calculations (cumulative increase)	Y	
Part I.18j	Summary of Emissions Estimates (cumulative increase)	Y	

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Table IV - U
Source-specific Applicable Requirements
A17- Asphalt Truck Loading Rack Thermal Incinerator (H-46100)

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)		
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 (06/28/199903/04/2009)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/20078/1/2018)		
6-1-114	Limited Exemptios	N	
6-1-114.2	Limited Exemption, TSP Limits for Gas-Fuel Fired Control Devices	N	
6-1-114.3	Limited Exemption, 6-1-504 Source Test Requirements	N	
6-1-301	Ringelmann #1 Limitation	N	
6-1-302	Opacity Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation TSP Concentration Limits	N	
6-1-310.1	TSP Concentration Limit (0.15 gr/dscf)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
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	Y	

IV. Source Specific Applicable Requirements

Table IV - U
Source-specific Applicable Requirements
A17- Asphalt Truck Loading Rack Thermal Incinerator (H-46100)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Instruments and Appraisal of Visible Emissions		
BAAQMD Regulation 8, Rule 6	Organic Compounds-Organic Liquid Bulk Terminals and Bulk Plants (02/02/1994)		
8-6-301	Bulk Terminal Limitations	Y	
40 CFR Part 63 Subpart DDDDD	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		
<u>63.7575</u>	<u>Definition: Subpart DDDDD is not applicable to incinerators because they do not meet the definition of boilers or process heaters</u>	<u>Y</u>	
BAAQMD Condition #1240			
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18g	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18i	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part I.19	1570F Minimum Operating Temperature and monitoring (2-6-503)	Y	
Part I.19a	Allowable temperature excursions (2-1-403)	Y	
Part I.19b	Recordkeeping for allowable temperature excursions (2-1-403)	Y	
Part I.19c	Temperatures above the limit (2-1-403)	Y	
Part I.19d	Initial source test requirement (Cumulative Increase)	Y	
Part I.19e	Approval for source test procedures (RACT, Cumulative Increase)	Y	
Part II.8	Control Requirement for S17 (Cumulative Increase)	Y	
Part II.65	Abatement Requirements for S17 (Cumulative Increase, BACT)	Y	

IV. Source Specific Applicable Requirements

Table IV - U
Source-specific Applicable Requirements
A17- Asphalt Truck Loading Rack Thermal Incinerator (H-46100)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part II.68	Destruction Efficiency Requirement for S17 (Cumulative Increase, BACT)	Y	

Table IV - V
Source-specific Applicable Requirements
A31, THERMAL OXIDIZER (H-4607)

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)		
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 (03/04/200906/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/20078/1/2018)		
<u>6-1-114</u>	<u>Limited Exemptios</u>	<u>N</u>	
<u>6-1-114.2</u>	<u>Limited Exemption, TSP Limits for Gas-Fuel Fired Control Devices</u>	<u>N</u>	
<u>6-1-114.3</u>	<u>Limited Exemption, 6-1-504 Source Test Requirements</u>	<u>N</u>	
6-1-301	Ringelmann #1 Limitation	N	
<u>6-1-302</u>	<u>Opacity Limitation</u>	<u>N</u>	
<u>6-1-305</u>	<u>Visible Particles</u>	<u>N</u>	
6-1-310	Particulate Weight Limitation <u>TSP Concentration Limits</u>	N	
<u>6-1-310.1</u>	<u>TSP Concentration Limit (0.15 gr/dscf)</u>	<u>N</u>	
6-1-401	Appearance of Emissions	N	

IV. Source Specific Applicable Requirements

Table IV - V
Source-specific Applicable Requirements
A31, THERMAL OXIDIZER (H-4607)

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 <u>Applicability of Test Methods</u>	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
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	N	
8-5-306	Requirements for Approved Emission Control Systems	N	
8-5-306.1	Requirements for Approved Emission Control Systems; Abatement efficiency >= 95%	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-502	Source test requirements 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; Approved Emission Control Systems for 8-5-306.1; Annual source tests	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; gas tight and >= 95% abatement	Y	
8-5-503	Portable hydrocarbon detector for 8-5-306	Y	
8-5-603	Determination of Emissions	Y	
8-5-603.1	Determination of Emissions for 8-5-306	Y	
8-5-605	Gas tight determination for 8-5-306	Y	
BAAQMD Regulation 8, Rule 6	Organic Liquid Bulk Terminals And Bulk Plants (02/02/1994)		

IV. Source Specific Applicable Requirements

Table IV - V
Source-specific Applicable Requirements
A31, THERMAL OXIDIZER (H-4607)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-6-301	Bulk Terminal Limitations	Y	
BAAQMD Regulation 10	New Source Performance Standards Incorporation by Reference (09/13/2010)		
10-17	40 CFR, Part 60 Subpart Kb	Y	
10-51	40 CFR, Part 60 Subpart UU	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. (10/15/03) Requirements for Control Devices		
60.112b(a)(3)(i)	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(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	
40 CFR, Part 60, Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (<u>10/17/0002/27/2014</u>)		
60.470(a)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.470(b)	Applicability and designation of affected facilities; asphalt storage tanks	Y	
60.472(c)	Asphalt plant tank opacity standard	Y	
60.473(c)	Parametric monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV - V
Source-specific Applicable Requirements
A31, THERMAL OXIDIZER (H-4607)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.473(d)	Exemption from quarterly reports	Y	
60.474(c)(5)	Test methods and procedures; use Method 9 and 60.11 to determine opacity	Y	
40 CFR, Part 63, Subpart DDDDD	<u>NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)</u>		
<u>63.7575</u>	<u>Definition: Subpart DDDDD is not applicable to incinerators because they do not meet the definition of boilers or process heaters</u>	<u>Y</u>	
BAAQMD Condition 1240			
Part I.5	Asphalt plant Heat Input Limit (Cumulative Increase)	Y	
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18g	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18i	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
Part II.32a	Control and Destruction Efficiency Requirement for S3, S5, S6, S7, S8, S12, S13, S26, S28, S31, S37, S38, S51, S52, S53, S54, S59, S60, S61, S62, S63, S65, S67, S70 (Regulation 8-5-306, NSPS, Cumulative Increase, BACT, Toxics)	Y	
Part II.58b	Continuous Temperature Monitoring (40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473(c); Regulation 2-6-409.2.2, 2-6-414)	Y	
Part II.58c	Allowable temperature excursions (2-1-403)	Y	
Part II.58d	Recordkeeping for allowable temperature excursions (2-1-403)	Y	
Part II.58e	Temperature excursion only applies when below limit (2-1-403)	Y	
Part II.58f	Operational conditions for temperature excursions (2-1-403)	Y	

IV. Source Specific Applicable Requirements

Table IV - W
Source-specific Applicable Requirements
S71 EMERGENCY DIESEL POWERED AIR COMPRESSOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (12/5/2007/8/1/2018)		
6-1-303	Ringelmann #2 Limitation	N	
6-1-303.24	Standby sources of power	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation TSP Concentration Limits	N	
6-1-310.1	TSP Concentration Limit (0.15 gr/dscf)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
6-303	Ringelmann #2 Limitation	Y	
6-303.1	Standby sources of power	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD · Regulation 9 Rule 1	Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (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	Y	
9-8-330	Emergency Standby Engines, Hours of Operation	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	

IV. Source Specific Applicable Requirements

Table IV - W
Source-specific Applicable Requirements
S71 EMERGENCY DIESEL POWERED AIR COMPRESSOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 50 hrs/year when PM emitted at a rate ≤ 0.15 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	N	
93115.6(b)(3)(A)(2)(b)	Operation for maintenance and testing allowed to be up to 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 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (02/27/2014)		

IV. Source Specific Applicable Requirements

Table IV - W
Source-specific Applicable Requirements
S71 EMERGENCY DIESEL POWERED AIR COMPRESSOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6585	Applicability	Y	
63.6585(a)(1)	Existing stationary RICE	Y	
63.6585(b)	Applicable to major source of HAPs	Y	
63.6590	Source Applicability	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)(1)	An Existing stationary RICE is:	Y	
63.6590(a)(1)(ii)	Rating ≤ 500 bhp located at major source of HAP emissions, constructed before 6/12/2006	Y	
63.6595	Compliance Timeline	Y	
63.6595(a)	For affected sources:	Y	
63.6595(a)(1)	An existing compression ignition (CI) stationary RICE with ≤ 500 bhp located at a major source of HAP emissions, comply with applicable operating limitations and other requirements no later than May 3, 2013	Y	
63.6595(c)	Meet the applicable notification requirements in 63.6645 and 40 CFR 63 Subpart A	Y	
63.6602	<p>For existing RICE with ≤ 500 bhp located at a major source of HAPs, comply with the emission limitations and other requirements in Table 2c, Item 1:</p> <p>Except during periods of startup:</p> <ul style="list-style-type: none"> - a. Change oil and filter every 500 hours of operation or annually, whichever comes first (or utilize an oil analysis program per 63.6625(i) or (j) to extend the oil change requirement; - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <p>During periods of startup:</p> <ul style="list-style-type: none"> - a. Minimize the engine’s time spent at idle and minimize the engine’s startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes <p>If the RICE is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the prescribed schedule, the work can be delayed until the emergency is over. The work should be performed as soon as practicable after the emergency has ended. The facility must report any failure to perform the work practice on the schedule prescribed.</p>	Y	

IV. Source Specific Applicable Requirements

Table IV - W
Source-specific Applicable Requirements
S71 EMERGENCY DIESEL POWERED AIR COMPRESSOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6605	<u>General requirements:</u>	<u>Y</u>	
63.6605(a)	<u>Comply with the operating limitations at all times</u>	<u>Y</u>	
63.6605(b)	<u>General duty: Operate and maintain the RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
63.6625	<u>Monitoring, installation, collection, operation, and maintenance requirements:</u>	<u>Y</u>	
63.6625(e)	<u>Operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the RICE in a manner consistent with good air pollution control practice for minimizing emissions for:</u>		
63.6625(e)(2)	<u>An existing emergency stationary RICE with a site rating of ≤ 500 hp located at a major source of HAP emissions</u>	<u>Y</u>	
63.6625(f)	<u>Install a non-resettable hour meter</u>	<u>Y</u>	
63.6625(h)	<u>Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes</u>	<u>Y</u>	
63.6625(i)	<u>Oil Analysis Program Option</u>	<u>Y</u>	
63.6640	<u>Compliance Demonstration</u>		
63.6640(a)	<u>For existing emergency RICE with < 500 bhp located at a major source of HAPs, comply with Table 6, Item 9a:</u> <ul style="list-style-type: none"> <u>- i. Operating and maintaining the RICE according to the manufacturer's emission-related operation and maintenance instructions; or</u> <u>- ii. Develop and follow a facility-developed maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions</u> 	<u>Y</u>	
63.6640(f)	<u>For emergency stationary RICE, operate the engine according to (f)(1) through (f)(4). To qualify as an emergency RICE, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours/yr, as described in (f)(1) through (f)(4) is prohibited</u>	<u>Y</u>	
63.6640(f)(1)	<u>There is no time limit on the use of the engine during emergency</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - W
Source-specific Applicable Requirements
S71 EMERGENCY DIESEL POWERED AIR COMPRESSOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>situations</u>		
<u>63.6640(f)(2)</u>	<u>The emergency engine may be operated for a maximum of 100 hrs/yr as allowed by (f)(2)(i) and (f)(3):</u>	<u>Y</u>	
<u>63.6640(f)(2)(i)</u>	<u>Operations for maintenance checks and readiness testing, provided the tests are recommended by the government, manufacturer, or vendor.</u>	<u>Y</u>	
<u>63.6640(f)(3)</u>	<u>Operations for non-emergency situations for up to 50 hrs/yr in non-emergency situations for maintenance and testing</u>	<u>Y</u>	
<u>66.6645</u>	<u>Notification Requirements</u>	<u>Y</u>	
<u>63.6645(a)</u>	<u>Notification requirements in 63 Subpart A:</u>	<u>Y</u>	
<u>63.6645(a)(5)</u>	<u>Notifications are not required for an existing stationary emergency RICE</u>	<u>Y</u>	
<u>63.6655</u>	<u>Recordkeeping Requirements</u>	<u>Y</u>	
<u>63.6655(a)</u>	<u>If you must comply with the operating limitations, keep the following records:</u>	<u>Y</u>	
<u>63.6655(d)</u>	<u>Maintain required records identified in Table 6, Item 9a:</u> <u>b. Work Management Practices:</u> <u>iii. Operating and maintaining the RICE according to manufacturer's emission-related operation and maintenance instructions; or</u> <u>iv. Develop and follow site-specific maintenance plan</u>	<u>Y</u>	
<u>63.6655(e)</u>	<u>Maintain required records of maintenance to demonstrate that the RICE was operated and maintained as required according to your own maintenance plan for the following:</u>	<u>Y</u>	
<u>63.6655(e)(2)</u>	<u>Existing stationary emergency RICE</u>	<u>Y</u>	
<u>63.6655(f)</u>	<u>Maintain records of the hours of operation as recorded by the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours for non-emergency operation for:</u>		
<u>63.6655(f)(1)</u>	<u>An existing emergency stationary RICE with a site rating of ≤ 500 brake hp located at a major source of HAP emissions that does not meet the standards applicable to non-emergency situations</u>	<u>Y</u>	
<u>63.6660</u>	<u>Recordkeeping Requirements: Form and Duration</u>	<u>Y</u>	
<u>63.6660(a)</u>	<u>Records must be in a form suitable and readily available for expeditious review according to 63.10(b)(1)</u>	<u>Y</u>	
<u>63.6660(b)</u>	<u>Keep each record for 5 years following the date of each occurrence, measurement, maintenance, correction action, report, or record, as specified in 63.10(b)(1)</u>	<u>Y</u>	
<u>63.6660(c)</u>	<u>Keep each record readily accessible in hard copy or electronic form for at</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - W
Source-specific Applicable Requirements
S71 EMERGENCY DIESEL POWERED AIR COMPRESSOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	<u>least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 63.10(b)(1)</u>		
BAAQMD Condition 1240			
Part I.6	Prohibition against combustion of fuel oil or diesel fuel (cumulative increase)	Y	
Part I.14	Facility Limits (Cumulative Increase)	Y	
Part I.18	Cumulative Increase Monitoring (Cumulative Increase)	Y	
Part I.18a	NMHC and NOx estimates (Cumulative Increase)	Y	
Part I.18g	Estimates of NMHC emissions from combustion sources (Cumulative Increase)	Y	
Part I.18i	Estimates of NOx emissions from combustion sources (Cumulative Increase)	Y	
Part I.18j	Summary of emissions estimates and reports of non-compliance (Cumulative Increase)	Y	
BAAQMD Condition 18796			
Part 1	Sulfur content of fuel (Cumulative Increase)	Y	
BAAQMD Condition 22928			
Part 1	Operating for reliability-related activities is limited to 50 hours per year. (Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b))	Y	
Part 2	Equipment Requirements (Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1))	Y	
Part 3	Recordkeeping ((Basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f))	Y	

IV. Source Specific Applicable Requirements

Table IV - X
Source-specific Applicable Requirements
H-4608 NATURAL GAS HEATER

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (8/1/2018)		
<u>6-1-114</u>	<u>Limited Exemptios</u>	<u>N</u>	
<u>6-1-114.1</u>	<u>Limited Exemption, TSP Limits for Gas-Fuel Fired Indirect Heat Exchangers</u>	<u>N</u>	
<u>6-1-114.3</u>	<u>Limited Exemption, 6-1-504 Source Test Requirements</u>	<u>N</u>	
<u>6-1-301</u>	<u>Ringelmann #1 Limitation</u>	<u>N</u>	
<u>6-1-302</u>	<u>Opacity Limitation</u>	<u>N</u>	
<u>6-1-310</u>	<u>TSP Concentration Limits</u>	<u>N</u>	
<u>6-1-310.1</u>	<u>TSP Concentration Limit (0.15 gr/dscf)</u>	<u>N</u>	
<u>6-1-401</u>	<u>Appearance of Emissions</u>	<u>N</u>	
<u>6-1-601</u>	<u>Applicability of Test Methods</u>	<u>N</u>	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)		
<u>6-301</u>	<u>Ringelmann #1 Limitation</u>	<u>Y</u>	
<u>6-310</u>	<u>Particulate Weight Limitation</u>	<u>Y</u>	
<u>6-401</u>	<u>Appearance of Emissions</u>	<u>Y</u>	
<u>6-601</u>	<u>Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions</u>	<u>Y</u>	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (10/16/2013)		
<u>9-10-111</u>	<u>Limited Exemption, Small Units</u>	<u>N</u>	
<u>9-10-306</u>	<u>Small Unit Requirements</u>	<u>Y</u>	
<u>9-10-306.2</u>	<u>Annual Tune-Ups</u>	<u>Y</u>	
<u>9-10-504.2</u>	<u>Records of Annual Tune-Ups</u>	<u>Y</u>	
<u>9-10-605</u>	<u>Tune-Up Procedures</u>	<u>Y</u>	
SIP Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/02/2008)		
<u>9-10-111</u>	<u>Limited Exemption, Small Units</u>	<u>Y</u>	
40 CFR Part 63 Subpart DDDDD	NESHAP Subpart DDDDD Industrial, Commercial, and Institutional Boilers and Process Heaters (11/20/2015)		
<u>63.7485</u>	<u>Applicable to boilers and heaters located at a major source of HAP</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - X
Source-specific Applicable Requirements
H-4608 NATURAL GAS HEATER

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>emissions</u>		
63.7490(a)	<u>Applicable to any new, reconstructed, or existing industrial boiler or process heater</u>	<u>Y</u>	
63.7490(a)(1)	<u>The affected source is the collection of all existing sources at a major source;</u>	<u>Y</u>	
63.7490(d)	<u>A boiler or process heater is existing if it is not new or reconstructed.</u>	<u>Y</u>	
63.7495(b)	<u>Comply with the work practice standards for existing boilers and process heaters by January 31, 2016</u>	<u>Y</u>	
63.7495(d)	<u>Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A</u>	<u>Y</u>	
63.7499	<u>Subcategories of boiler and process heaters</u>	<u>Y</u>	
63.7499(l)	<u>Units designed to burn gas 1 fuels</u>	<u>Y</u>	
63.7500	<u>Emission limitations, work practice standards, and operating limits</u>	<u>Y</u>	
63.7500(a)	<u>Meet the requirements in paragraphs (a)(1) and (3) except as provided in (e)</u>	<u>Y</u>	
63.7500(a)(1)	<u>Meet the work practice standards in Table 3: tune-ups and one-time energy assessment</u>	<u>Y</u>	
63.7500(a)(3)	<u>At all times operate and maintain any affected source including associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions</u>	<u>Y</u>	
63.7500(e)	<u>Boilers and process heaters designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13, or the operating limits in Table 4</u>	<u>Y</u>	
63.7505	<u>General requirements for compliance</u>	<u>Y</u>	
63.7505(a)	<u>Comply with the applicable emission limits, work practice standards, and operating limits at all times of operation</u>	<u>Y</u>	
63.7510	<u>Initial Compliance Requirements</u>	<u>Y</u>	
63.7510(e)	<u>Complete the initial tune-up following 63.7540(a)(10)(i) through (vi) no later than January 31, 2016. Complete the one-time energy assessment specified in Table 3 no later than January 31, 2016</u>	<u>Y</u>	
63.7515	<u>Tune-up Requirements</u>	<u>Y</u>	
63.7515(d)	<u>Conduct tune up in accordance with 63.7540(a) and comply with the period allowed between tune-ups</u>	<u>Y</u>	
63.7530	<u>Initial Compliance Demonstration with work practice standards</u>	<u>Y</u>	
63.7530(e)	<u>Submit a signed statement in the Notification of Compliance Status report that the energy assessment was completed according to Table 3 and is an accurate depiction of the facility at the time of the assessment</u>	<u>Y</u>	
63.7540	<u>Demonstrate Continuous Compliance with the Work Practice</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - X
Source-specific Applicable Requirements
H-4608 NATURAL GAS HEATER

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	<u>Standards</u>		
63.7540(a)	<u>Demonstrate continuous compliance with the work practice standards in Table 3</u>	<u>Y</u>	
63.7540(a)(10)	<u>Tune-up Requirements</u>	<u>Y</u>	
63.7540(a)(11)	<u>For a boiler or process heater that has a heat input capacity of less than 10 mmbtu, conduct a biennial tune-up as specified in (a)(10)(i) through (vi) to demonstrate continuous compliance</u>	<u>Y</u>	
63.7540(a)(13)	<u>If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup</u>	<u>Y</u>	
63.7545	<u>Notification Requirements</u>	<u>Y</u>	
63.7545(a)	<u>Submit all notifications in 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply by the specified dates</u>	<u>Y</u>	
63.7545(e)	<u>Submit a Notification of Compliance Status according to 63.9(h)(2)(ii) before the close of business of the 60th day following the completion of the initial tune-up. The NOCS report must contain all the information in (e)(1) and (8)</u>	<u>Y</u>	
63.7545(e)(1)	<u>A description of the affected units, including identification of the fuel subcategory, the design heat input capacity, and the fuel burned</u>	<u>Y</u>	
63.7545(e)(8)	<u>In addition to the information in 63.9(h)(2), the NOCS must include the following certifications of compliance and signed by a responsible official:</u>	<u>Y</u>	
63.7545(e)(8)(i)	<u>"This facility complies with the required initial tune-up according to the procedures in 63.7540(a)(10)(i) through (vi)."</u>	<u>Y</u>	
63.7545(e)(8)(ii)	<u>"This facility has had an energy assessment performed according to 63.7530(e)."</u>	<u>Y</u>	
63.7550	<u>Reports</u>	<u>Y</u>	
63.7550(a)	<u>Submit each report in Table 9 that applies</u>	<u>Y</u>	
63.7550(b)	<u>Submit an annual, biennial, or 5-year compliance report instead of the compliance report specified in Table 9 according to paragraphs (b)(1) through (4).</u>	<u>Y</u>	
63.7550(c)	<u>Each compliance report must contain the information in (c)(1) through (5) depending upon how the facility chooses to comply</u>	<u>Y</u>	
63.7550(c)(1)	<u>Submit a compliance report with the information in paragraphs (c)(5)(i) through (iii), (xiv), and (xvii) of this section</u>	<u>Y</u>	
63.7550(c)(5)	<u>Information required in compliance reports</u>	<u>Y</u>	
63.7550(c)(5)(i)	<u>Company and Facility name and address</u>	<u>Y</u>	
63.7550(c)(5)	<u>Process Unit information</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV - X
Source-specific Applicable Requirements
H-4608 NATURAL GAS HEATER

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirement</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>(ii)</u>			
<u>63.7550(c)(5)(iii)</u>	<u>Date of report and beginning and ending dates of the reporting period</u>	<u>Y</u>	
<u>63.7550(c)(5)(xiv)</u>	<u>The date of the most recent tune-up for each unit subject to only the requirement to conduct a tune-up. Include the date of the most recent burner inspection if it was not done and was delayed until the next scheduled or unscheduled unit shutdown</u>	<u>Y</u>	
<u>63.7550(c)(5)(xvii)</u>	<u>Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report</u>	<u>Y</u>	
<u>63.7550(h)</u>	<u>Submit the reports according to the electronic reporting procedures for use of EPA's WebFIRE, CEDRI, and CDX interface as specified in (h)(1) through (3)</u>	<u>Y</u>	
<u>63.7550(h)(3)</u>	<u>Electronic submission of reports</u>	<u>Y</u>	
<u>63.7555</u>	<u>Recordkeeping</u>	<u>Y</u>	
<u>63.7555(a)</u>	<u>Required records</u>	<u>Y</u>	
<u>63.7555(a)(1)</u>	<u>A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or compliance report that you submitted according to the requirements of 63.10(b)(2)(xiv)</u>	<u>Y</u>	
<u>63.7560</u>	<u>Record Retention Requirements</u>	<u>Y</u>	
<u>63.7560(a)</u>	<u>Records must be in a form suitable and readily available for review according to 63.10(b)(1)</u>	<u>Y</u>	
<u>63.7560(b)</u>	<u>Keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.</u>	<u>Y</u>	
<u>63.7560(c)</u>	<u>Keep records on site, or they must be accessible from on site (e.g., through a computer network), for at least 2 years. Records can be kept off site for the remaining 3 years</u>	<u>Y</u>	
<u>63.7565</u>	<u>Applicability of General Provisions (Table 10)</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – Y
Generally Applicable Requirements
Miscellaneous Process Vents: Maintenance Vents

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
<u>NESHAPS Title 40 Part 63 Subpart CC</u>	<u>NESHAPS for Petroleum Refineries (07/13/2016)</u>		
<u>63.640(a)</u>	<u>Applicability applies to petroleum refining process units and to related emission points.</u>	<u>Y</u>	
<u>63.640(c)</u>	<u>Applicability and Designation of Affected Source--Includes all emission points at Refinery</u>	<u>Y</u>	
<u>63.640(c)(1)</u>	<u>Applicability of Miscellaneous Process Vents</u>	<u>Y</u>	
<u>63.640(d)</u>	<u>Applicability and Designation of Affected Source--Exclusions</u>	<u>Y</u>	
<u>63.640(h)</u>	<u>Applicability and Designation of Affected Source--Compliance dates as specified in Table 11</u>	<u>Y</u>	
<u>63.643(a)</u>	<u>Miscellaneous process vents defined in 63.641 as maintenance vents shall comply with (c), 63.655(g)(13), and (i)(12)</u>	<u>Y</u>	
<u>63.643(c)</u>	<u>Designation of process vents as maintenance vents must comply with (c)(1) through (c)(3) by 8/1/2017, unless an extension is requested in accordance with 63.6(i)</u>	<u>Y</u>	
<u>63.643(c)(1)</u>	<u>Prior to venting to atmosphere, process liquids are removed as much as practical and equipment is depressured to a control device, fuel gas system, or back to the process until one of the conditions in 63.643(c)(i) through (iv) is met</u>	<u>Y</u>	
<u>63.643(c)(1)(i)</u>	<u>The vapor in the equipment served by the vent has an LEL of < 10%</u>	<u>Y</u>	
<u>63.643(c)(1)(ii)</u>	<u>If there is no ability to measure the LEL based on the design of the equipment, the pressure is reduced to < 5 psig. Upon opening, active purging cannot be used until the LEL is < 10%</u>	<u>Y</u>	
<u>63.643(c)(1)(iii)</u>	<u>The equipment served by the maintenance vent contains < 72 pounds of VOC</u>	<u>Y</u>	
<u>63.643(c)(1)(iv)</u>	<u>If the equipment contains pyrophoric catalyst at refineries that do not have a pure hydrogen supply, the LEL must be < 20% prior to venting to atmosphere, except for one event per year < 35%</u>	<u>Y</u>	
<u>63.643(c)(2)</u>	<u>Except for maintenance vents complying with 40 CFR 63.643(c)(1)(iii), determine the LEL or, if applicable, equipment pressure using process instrumentation or portable measurement devices</u>	<u>Y</u>	
<u>63.643(c)(3)</u>	<u>For maintenance vents complying with 40 CFR 63.643(c)(1)(iii), determine mass of VOC in the equipment served by the maintenance vent based on equipment size and contents</u>	<u>Y</u>	
<u>63.655(g)</u>	<u>Periodic Reporting and Recordkeeping Requirements: Periodic Reports</u>	<u>Y</u>	
<u>63.655(g)(13)</u>	<u>Periodic Reporting and Recordkeeping Requirements: Periodic Reports for maintenance vents</u>	<u>Y</u>	
<u>63.655(g)(13)(i)</u>	<u>Identification of the maintenance vent and equipment served by the vent</u>	<u>Y</u>	
<u>63.655(g)(13)(ii)</u>	<u>The date and time the vent was opened to atmosphere</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – Y
Generally Applicable Requirements
Miscellaneous Process Vents: Maintenance Vents

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
63.655(g)(13)(iii)	The LEL, pressure, or mass VOC in the equipment, as applicable, at the start of atmospheric venting. If the 5 psig option was used, record the LEL at the time active purging was initiated	Y	
63.655(g)(13)(iv)	An estimate of the mass organic HAP emissions released during the entire venting event	Y	
63.655(i)	Reporting and Recordkeeping Requirements--Recordkeeping	Y	
63.655(i)(12)	Recordkeeping requirements for maintenance vents subject to 63.643(c)	Y	
63.655(i)(12)(i)	Maintain standard site procedures used to deinventory equipment for safety purposes (e.g., hot work or vessel entry procedures) to document the requirements to comply with 63.643(c). Maintain current copy on site at all times. Keep previous versions for 5 years.	Y	
63.655(i)(12)(ii)	If not complying with the 5 psig option and LEL is >10%, maintain records that include identification of the maintenance vent; the process units or equipment associated with the vent; the date of the maintenance vent opening; and the LEL at the time of vessel opening.	Y	
63.655(i)(12)(iii)	If complying with the 5 psig option and the vessel pressure at the time of the vessel opening > 5 psig or LEL at time active purging was initiated was >10% LEL, maintain records that include identification of the maintenance vent; the process units or equipment associated with the vent; the date of the maintenance vent opening; the pressure of the vessel or equipment at the time of discharge to atmosphere; and if applicable, the LEL at the time active purging was initiated.	Y	
63.655(i)(12)(iv)	If comply with the 5 psig option and the vessel pressure at the time of the vessel opening > 5 psig or LEL at time active purging was initiated was >10% LEL, maintain records that include identification of the maintenance vent; the process units or equipment associated with the vent; the date of the maintenance vent opening; the pressure of the vessel or equipment at the time of discharge to atmosphere; and if applicable, the LEL at the time active purging was initiated.	Y	
63.655(i)(12)(v)	For equipment that contains pyrophoric catalyst at a refinery without pure hydrogen supply, maintain the following records for each maintenance vent opening: identification of the maintenance vent; the process units or equipment associated with the vent; records documenting the lack of pure hydrogen supply; -the date of the maintenance vent opening; and the LEL of the vapors in the equipment at the time of discharge to atmosphere.	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix	General Provisions Applicability to Subpart CC	Y	

IV. Source Specific Applicable Requirements

Table IV – Y
Generally Applicable Requirements
Miscellaneous Process Vents: Maintenance Vents

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>Table 6</u>			
<u>Appendix Table 11</u>	<u>Compliance Dates and Requirements</u>	<u>Y</u>	

Table IV – Z
Generally Applicable Requirements
Fenceline Monitoring

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
<u>NESHAPS Title 40 Part 63 Subpart CC</u>	<u>NESHAPS for Petroleum Refineries (07/13/2016)</u>		
<u>63.640(a)</u>	<u>Applicability applies to petroleum refining process units and to related emission points.</u>	<u>Y</u>	
<u>63.640(c)</u>	<u>Applicability and Designation of Affected Source--Includes all emission points at Refinery</u>	<u>Y</u>	
<u>63.640(h)</u>	<u>Applicability and Designation of Affected Source--Compliance dates as specified in Table 11</u>	<u>Y</u>	
<u>63.655</u>	<u>Reporting and Recordkeeping Requirements</u>	<u>Y</u>	
<u>63.655(h)(8)</u>	<u>Quarterly report contents for fenceline monitoring systems subject to 63.658. After obtaining 12 months of data, submit the following results within 45 days after the end of each quarterly reporting period covered by the periodic report via CEDRI as accessed through EPA's CDX</u>	<u>Y</u>	<u>5/15/2019</u>
<u>63.655(i)</u>	<u>Reporting and Recordkeeping Requirements--Recordkeeping</u>	<u>Y</u>	
<u>63.655(i)(6)</u>	<u>All other information required to be reported under (a) through (h) must be retained for 5 years</u>	<u>Y</u>	
<u>63.655(i)(8)</u>	<u>Recordkeeping requirements for fenceline monitoring systems subject to 63.658</u>	<u>Y</u>	
<u>63.658(a)</u>	<u>Conduct sampling along the facility property boundary and analyze samples in accordance with Methods 325A and 325B of Appendix A of Part 63 and 63.658(b) through (k)</u>	<u>Y</u>	
<u>63.658(b)</u>	<u>The target analyte is benzene</u>	<u>Y</u>	
<u>63.658(c)</u>	<u>Determine passive monitor locations in accordance with Section 8.2 of</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – Z
Generally Applicable Requirements
Fenceline Monitoring

Applicable Requirement	Regulation Title or Description of Requirements	Federally Enforceable (Y/N)	Future Effective Date
	<u>Method 325A</u>		
<u>63.658(d)</u>	<u>Collect and record meteorological data according to the applicable requirements in (d)(1) through (3)</u>	<u>Y</u>	
<u>63.658(e)</u>	<u>Use a sampling period and sampling frequency as specified in paragraphs (e)(1) through (3)</u>	<u>Y</u>	
<u>63.658(f)</u>	<u>Within 45 days of completion of each sampling period, determine whether the results are above or below the action level</u>	<u>Y</u>	<u>1/30/2019</u>
<u>63.658(f)(3)</u>	<u>Action level for benzene is 9 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) on an annual average basis. If the annual average Δc value for benzene is less than or equal to 9 $\mu\text{g}/\text{m}^3$, the concentration is below the action level. If the annual average Δc value for benzene is greater than 9 $\mu\text{g}/\text{m}^3$, the concentration is above the action level, and the owner or operator shall conduct a root cause analysis and corrective action in accordance with paragraph (g) of this section.</u>	<u>Y</u>	
<u>63.658(g)</u>	<u>Within 5 days of determining that the action level has been exceeded for any annual average Δc and no longer than 50 days after completion of the sampling period, initiate a root cause analysis to determine the cause of such exceedance and appropriate corrective actions, such as those described in 63.658(g)(1) through (4). The root cause and initial corrective action analyses shall be completed and initial corrective actions taken no later than 45 days after determining there is an exceedance.</u>	<u>Y</u>	<u>1/30/2019</u>
<u>63.658(h)</u>	<u>If, upon completion of the corrective action analysis and corrective actions the Δc value for the next 14-day sampling period for which the sampling start time begins after the completion of the corrective actions is greater than 9 $\mu\text{g}/\text{m}^3$ or if all corrective action measures identified require more than 45 days to implement, develop a corrective action plan that describes the corrective action(s) completed to date, additional proposed measures to reduce fenceline concentrations below the action level, and a schedule for completion of these measures. Submit the corrective action plan to the Administrator within 60 days after receiving the analytical results indicating that the Δc value for the 14-day sampling period following the completion of the initial corrective action is greater than 9 $\mu\text{g}/\text{m}^3$ or, if no initial corrective actions were identified, no later than 60 days following the completion of the corrective action analysis required in 65.658(g).</u>	<u>Y</u>	<u>1/30/2019</u>
<u>63.658(i)</u>	<u>Approval from the Administrator may be requested for a site-specific monitoring plan to account for offsite upwind sources or onsite sources excluded under 63.640(g) according to the requirements in 63.658(i)(1) through (4).</u>	<u>Y</u>	
<u>63.658(j)</u>	<u>Comply with the applicable recordkeeping and reporting requirements</u>	<u>Y</u>	

IV. Source Specific Applicable Requirements

Table IV – Z
Generally Applicable Requirements
Fenceline Monitoring

<u>Applicable Requirement</u>	<u>Regulation Title or Description of Requirements</u>	<u>Federally Enforceable (Y/N)</u>	<u>Future Effective Date</u>
	in 63.655(h) and (i)		
<u>63.658(k)</u>	As outlined in 63.7(f), the owner or operator may submit a request for an alternative test method. At a minimum, the request must follow the requirements outlined in 63.658(k)(1) through (7).	Y	
<u>63.658(k)(7)</u>	For purposes of averaging data points to determine the Δc for the 14-day average high sample result, all results measured under the method detection limit must use the method detection limit. For purposes of averaging data points for the 14-day average low sample result, all results measured under the method detection limit must use zero	Y	
<u>Appendix Table 1</u>	<u>Hazardous Air Pollutants</u>	Y	
<u>Appendix Table 6</u>	<u>General Provisions Applicability to Subpart CC</u>	Y	
<u>Appendix Table 11</u>	<u>Compliance Dates and Requirements</u>	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit.
The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

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

Condition #1240 **For All Sources**

Permit Conditions II. 1, 11, 12, and 13; and IV. 1, 2, and 3 were modified or added as part of App. No. 14513.

Pursuant to permit application #17515, permit condition I.8 was modified, conditions I.9 and I.10 were added, and what had been conditions I.9 and I.10 were renumbered as I.11 and I.12, respectively.

Pursuant to permit application #17687 the total asphalt plant wide heat input has been corrected from 42 to 66.17 MMBTU/HR, S13 and S59 were permitted, and S12 was exempted from permitting.

Pursuant to permit application #1261 (May, 2000) the total asphalt plant-wide heat input has been corrected from 76.06 to 86.6 MMBTU/HR, and the allowable heat input for S19 was increased from 22.4 to 33 MMBtu/hr.

Pursuant to permit application #1819 (October, 2000), the crude oil throughput to the crude unit, S18, was raised to 5,292,000 barrels/yr.

Pursuant to permit application #7123 (March, 2003) the total asphalt plant-wide heat input has been corrected from 86.6 to 93.6 MMBTU/HR, and the allowable heat input for S19 was increased from 33 to 40 MMBtu/hr.

Pursuant to permit application # 19193 (February, 2009), process offgas from S18 Crude Unit will be routed from the S19 Vacuum Heater to the refinery fuel gas recovery system, S9, Facility B2626.

Pursuant to permit application #19384 (February 2009), if A31 and the vapor recovery blowers are inoperative, emissions from sources abated by A31 will be contained in a closed vent system, or vented to S24 as a backup until A31 is operating. Temperature excursion language is defined as occurring only when one or more vapor recovery system blower is operating in organic vapor service. Pressure monitoring of the vapor recovery system is required whenever a blower is not operating to verify compliance with closed vent system requirements.

Pursuant to permit application #21641 (March, 2010), A17 (H46100) is separated from A4 (H4606). A17 will continue to abate S17 Asphalt Truck Loading Rack. A4 will be shut down

VI. Permit Conditions

and serve as an emission stack downstream of A17.

Pursuant to permit application #22724 (November, 2010), part I.16a, a source test requirement, will be added back for S19 Vacuum Heater.

Pursuant to permit application #23459 (August 2011), S12 is storing heavy gas oil with S-3 in addition to effluent wastewater service.
Superseded by A/N 24278

Pursuant to permit application #24278 (December 2012), Wastewater Amendment, S-27, S-41 and S-66 were shutdown; S-67 changed service from storing waste oil to untreated wastewater; S-12, S-26 and S-28 changed service from exempt to untreated wastewater. The BAP wastewater is combined with refinery wastewater for treatment onsite.

Pursuant to permit application #29774 (June 2019), revised description of A1, A2, A3, A6, and A20 mist eliminators.

I. ASPHALT PLANT CONDITIONS

S18 Crude Unit with Amended by Application 19193

1. The total throughput of feed oil to S18 Crude Unit shall not exceed 5,292,000 barrels in any consecutive 12-month period.
(cumulative increase, toxics, offsets)
2. The total throughput of feed oil to S18 Crude Unit shall not exceed 18,000 barrels in any calendar day. (cumulative increase, toxics)
3. The owner/operator of S-18 Crude Unit shall vent its emissions to the refinery fuel gas recovery system S-9 at all times. (cumulative increase, toxics).
4. Each day, the permittee shall record, by material name, in a District approved log, the total volume of each and every liquid material throughput to S18 during the preceding calendar day, in gallon units or barrel units. At the conclusion of each month, the permittee shall total the daily log records and record the sum as the monthly throughput of all liquid materials to S18, in a District approved log. Additionally, the permittee shall record in the District approved log the throughput of all liquid materials to S18 for each rolling 12 consecutive month period. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase)

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5. The maximum heat input to all asphalt plant combustion units except S68, Emergency Diesel-Powered Firewater Pump, shall not exceed a total of 93.6 MM BTU/Hr. Compliance will be determined from the daily reading of the PG&E natural gas flow meter . These meter readings shall be logged and initialed by the operations coordinator on a daily basis. These readings and the monthly PG&E bills shall be made available to the District upon request. (cumulative increase)
- 5a. The owner/operator of S-19 shall only use natural gas and the maximum heat input to S19, Vacuum Heater, shall not exceed 40 MMbtu/hr. (cumulative increase)
- 5b. CO emissions in the exhaust of S19, Vacuum Heater, shall not exceed 50 ppmvd at 3% oxygen over any one-hour period. (cumulative increase, BACT)
- 5c. CO emissions in the exhaust of S19, Vacuum Heater, shall not exceed 1.47 lb/hr over any one-hour period. (cumulative increase, BACT)
6. Fuel oil and/or diesel fuel shall not be combusted in the asphalt plant's heaters or boilers or other combustion sources except for S68, Emergency Diesel-powered Firewater Pump and S71, Emergency Diesel-powered Air Compressor. (cumulative increase) (modified 8/12/99, 4/24/02, 4/19/06)
7. Mechanical seals will be installed on all new rotary pumps and compressors. Mechanical packing of best available design will be installed in new reciprocating pumps. All compressor seals will be vented to an operating firebox or the vapors will otherwise be eliminated by a method, which is satisfactory to the District. (cumulative increase)
8. Vacuum Heater (S19) shall be equipped with a John Zink LoNOx Burner. Average NOx emissions from S19 shall not exceed 25 ppm corrected to 3% oxygen on a dry basis (one hour averaging period). (cumulative increase, BACT)
9. Deleted 06/02/98.
10. Boilers S20 and S21 and heater S19 shall be equipped with individual continuous recording oxygen analyzers. (2-1-403)
11. ~~Deleted. [NSPS Ja for NOx does not apply to A0901, Benicia Asphalt Plant. NSPS Ja applicability for flaring is addressed for the refinery flares which receive process vent gases from A0901 (see B2626, Valero Benicia Refinery, Sources S-18, South Flare and S-19, North Flare.) Contingent up EPA's approval of 40 CFR 60, Subpart Ja — Standards of Performance for Petroleum Refineries, the owner/operator shall submit a permit application the District for NOx and flaring applicability and revise the Title V permit if~~

VI. Permit Conditions

~~necessary. (Regulation 2-1-403).~~

12. Deleted (vacuum exhaust routed from S19, Vacuum Heater to refinery fuel gas recovery system, S9, Facility B2626)

13. Deleted (vacuum exhaust routed from S19, Vacuum Heater to refinery fuel gas recovery system, S9, Facility B2626)

14. Total asphalt plant emissions shall not exceed the limits listed below:

- | | |
|--|----------------|
| a. Non-Methane Hydrocarbons..... | 42.705 tons/yr |
| b. Sulfur Dioxide, SO ₂ | 28.049 tons/yr |
| c. Nitrogen Oxides, as NO ₂ | 40.047 tons/yr |
- (Cumulative Increase)

15. Asphalt plant wastewater and refinery wastewater shall not be used for dust control at this facility. (Cumulative Increase)

16a. The permit holder shall perform a source test at S19, Vacuum Heater, every 6 months to determine compliance with the NO_x limit in part I.8 of this condition, and the CO limit in parts I.5b and I.5c of this condition. The source test shall be performed at the highest duty possible for the prevailing process conditions. All source testing shall be done in accordance with the District's Manual of Procedures. The facility shall receive approval from the District's Source Test Manager for installation of test ports and source testing procedures. The results shall be delivered to the District no later than 60 days from the date of the source test. (Cumulative Increase, BACT)

16b. Deleted (vacuum exhaust routed from S19, Vacuum Heater to refinery fuel gas recovery system, S9, Facility B2626)

17. A/C source test condition, deleted.

18. To assure compliance with part I.14 of Condition 1240, the permit holder shall perform the following monitoring on a semi-annual basis, starting on January 1 of each year.

18a. The permit holder shall estimate emissions of Non-methane hydrocarbons (NMHC) and nitrogen oxides for each quarter.

18b. The permit holder shall estimate fugitive NMHC emissions from valves, flanges, pumps, and compressors using the draft "California Implementation Guidelines for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities" dated

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February 1999, or later version.

18c. The permit holder shall estimate tank NMHC emissions from the following tanks using the most recent version of EPA's "Tanks" program or EPA publication AP-42: S3, S5-S9, S12, S13, S26, S28, S37, S38, S51-S53, S59-S63, S65, S67 and S70.

18d. The permit holder shall estimate NMHC emissions from the following loading racks using EPA publication AP-42: S16, S17, S31, S54.

18e. Deleted. S-27, S-41 and S-66 have been shutdown. Untreated BAP wastewater is now transferred to refinery for treatment. S-67 is now in untreated wastewater service. 18f. The permit holder shall estimate NMHC emissions from the following combustion sources: S19-S21. The permit holder shall use fuel measurements for each fuel, the F-factor method in EPA Method 19, and the average concentration in the last source test for these estimates.

18g. The permit holder shall estimate NMHC emissions from the following combustion sources: S24, S34, A17, A31. The permit holder shall use the maximum capacity as an estimate of the fuel usage, and the appropriate emission factor from EPA publication AP-42. The permit holder shall estimate NMHC emissions from S68 and S71. The permit holder shall use the maximum capacity as an estimate of the fuel usage, the actual hours of operation, and the appropriate emission factor from EPA publication AP-42.

18h. The permit holder shall estimate emissions of nitrogen oxides (NOx) from the following combustion sources: S19-S21. The permit holder shall use fuel measurements for each fuel, the F-factor method in EPA Method 19, and the average concentration in the last source test for these estimates.

18i. The permit holder shall estimate emissions of nitrogen oxides (NOx) from the following combustion sources: S24, S34, A17, A31. The permit holder shall use the maximum capacity as an estimate of the fuel usage, and the appropriate emission factor from EPA publication AP-42. The permit holder shall estimate NOx emissions from S68 and S71. The permit holder shall use the maximum capacity as an estimate of the fuel usage, the actual hours of operation, and the appropriate emission factor from EPA publication AP-42.

18j. Within 30 days after the end of each semi-annual period, the permit holder shall calculate the emission estimates required by parts I.18b through 18i for the quarter, summarize the emission estimates for the period, and for the previous period. If the emission estimates exceed the limits in part I.14 of Condition 1240, the permit holder shall report non-compliance with part I.14 of this condition in accordance with Standard Condition I.F of the Title V permit. The emissions estimates shall be kept on-site for a minimum of five years and be made available to District staff upon request. (Cumulative Increase)

19. The Owner/Operator shall install continuous temperature monitoring and recording device for A17, Incinerator. The Owner/Operator shall operate A17, Incinerator at a

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minimum temperature of 1570F. 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 Part II.68. (2-6-503)

19a. The temperature limit in part I.19 shall not apply during an “Allowable Temperature Excursion”, provided that the temperature controller setpoint complies with the temperature limit. An Allowable Temperature Excursion is one of the following:

- a. A temperature excursion not exceeding 20 degrees F; or
- b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or
- c. A temperature excursion for a period or periods which when combined are more than 15 minutes in any hour, provided that all three of the following criteria are met.
 - i. the excursion does not exceed 50 degrees F;
 - ii. the duration of the excursion does not exceed 24 hours; and
 - iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).

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)

19b. For each Allowable Temperature Excursion that exceeds 20 degrees F. and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five 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)

19c. For the purposes of parts I.19a and I.19b, a temperature excursion refers only to temperatures below the limit. (basis: Regulation 2-1-403)

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19d. The owner/operator shall conduct District approved source tests at A-17 to determine initial compliance with the limits in parts II.68. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. (basis: Cumulative Increase)

19e. 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 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: RACT, Cumulative Increase)

20. Deleted Application 9297

II. TANKAGE AND LOADING RACK CONDITIONS:

1. Deleted in Revision 2. Ownership of S2 transferred to Facility B5574 by Application No. 7980/8915.

2. Deleted 5/01. Redundant with condition 1240 II.26.

3. Deleted 07/20/99. Redundant with condition 1240 II.27.

4. Deleted 07/20/99. Redundant with condition 1240 II.54.

5. Deleted 07/20/99. Redundant with condition 1240 II.60.

6. Deleted (basis: requirement no longer applicable since exhaust from S18 Crude Unit routed from the S19, Vacuum Heater to the refinery fuel gas recovery system, S9, Facility B2626)

7. Deleted 07/20/99. Redundant with condition 1240 II.51.

8. The owner/operator shall abate emissions from Source S-17 with Abatement device A-17, Incinerator during all periods of loading operation. (Cumulative Increase)

9. Deleted 08/12/99.

10. Deleted. [Basis: S25 is permanently removed from service]

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- S1 Crude Oil Storage Tank 1A, External Floating Roof,
Capacity: 3,419,000 Gallons
- S2 Crude Oil Storage Tank, External Floating TK-1B,
Capacity: 3,419,000 Gallons
- S4 Crude Oil Storage Tank, External Floating Roof,
TK-10A, Capacity: 1,382,000 Gallons
- S23 Crude Oil Storage Tank, External Floating Roof,
TK-10B, Capacity: 1,382,000 Gallons

Conditions 11-24 Deleted in Revision 2. Ownership of S1, S2, S4, and S23 transferred to Facility B5574 by Application No. 7980/8915.

S9 Internal Floating Roof Tank, TK-7; Capacity: 571,200 Gallons, White, Storing: Naphtha equipped with a mechanical shoe primary seal, rim mounted secondary seal, and welded deck

25. Material other than Naphtha may be throughput to or stored in S9, if all of the following are satisfied:

- a. the storage of each material complies with all other conditions applicable to this source
- b. the storage of each material complies with all other applicable regulatory requirements
- c. the permittee keeps District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S9 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (cumulative increase, toxics)

26. The true vapor pressure of each and all material stored in S9 shall not exceed 11 psia. (cumulative increase, toxics)

27a. S9 shall not be operated unless it is equipped with a District approved internal floating roof with a mechanical shoe primary seal, a rim mounted secondary seal, and a welded deck. (cumulative increase, NSPS)

28. The total throughput of all liquid materials to S9 shall not exceed 24,019,000 gallons (571,880 barrels) in any rolling 12 consecutive month period. (cumulative increase, toxics)

29. On a monthly basis, the permittee shall record in a District approved log the total volume of each and all liquid materials throughput to S9 each month and each rolling 12 consecutive month period, in gallon units or barrel units. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the

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District staff on request. (cumulative increase)

S13 Fixed Roof Storage Tank (TK-8); Capacity: 88,000 Gallons, Storing: Kerosene, Light or Heavy Vacuum Gas Oil, and Asphalt abated by (either) A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S13 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S13 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S59 Fixed Roof Storage Tank (TK-5); Capacity: 1,050,000 Gallons, Storing: Kerosene, Light or Heavy Vacuum Gas Oil and Asphalt, abated by A1 or A3 Mist Eliminator [FIL-4608](#) (or) [FIL-4610](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S59 emissions shall be contained in a District approved closed vent system as specified in Parts 93 and 96. Alternately, S59 emissions shall be vented to S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S63 Kerosene/Light Vacuum Gas Oil/Heavy Vacuum Gas Oil/Asphalt Storage Tank, Fixed Roof, TK-31, Capacity: 1,218,000 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S63 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S63 emissions shall be vented to S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

30. Petroleum materials other than Kerosene, Light or Heavy Vacuum Gas Oil, and Asphalt may be stored in S13, S59, and S63 if all of the following are satisfied:

- a. the storage of each petroleum material complies with all other conditions applicable to S13, S59, or S63.
- b. the storage of each petroleum material complies with all other applicable regulatory requirements
- c. the permittee keeps District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S13, S59, or S63 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1.

(cumulative increase, toxics)

31. The true vapor pressure of each material stored in S13, S59, or S63 shall not exceed 1.5 psia. (cumulative increase, toxics)

31a. To assure compliance with the limit in part II.31, the permit holder shall take a sample from each tank on an annual basis and determine the true vapor pressure of the sample. Records of these analyses shall be retained for at least 5 years from the date of

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the analysis, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase, toxics)

32a. The owner/operator shall maintain and operate A31 Thermal Oxidizer H-4607 or S24 Hot Oil Heater H-4603; with an overall collection and destruction efficiency of at least 98.5%, by weight whenever petroleum and VOC materials are stored and/or transferred at S3, S5, S6, S7, S8, S12, S13, S26, S28, S31, S37, S38, S51, S52, S53, S54, S59, S60, S61, S62, S63, S65, S67 and S70. (Regulation 8-5-306, NSPS, and cumulative increase, BACT, toxics)

32b. Deleted. Combined with Condition 1240.II.Part 32a

32c. Deleted. Combined with Condition 1240.II.Part 32a

32d. Deleted. Redundant with Regulation 8-18.

32e. To monitor compliance with the standard in 40 CFR, Part 60.112b(a)(3)(i) for fugitive emissions at closed vent systems, the owner/operator shall inspect the closed vent systems that control S13, S59, and S63 using EPA Method 21 on a semi-annual basis. (Regulation 2-6-503)

33a. The total combined throughput of all materials to S13, S59, and S63 shall not exceed 68,208,000 gallons (1,624,600 barrels) in any rolling 12 consecutive month period. (cumulative increase, toxics)

33b. Cutback asphalt materials including but not limited to SC Cutback Asphalt, MC Cutback Asphalt, and FM-1 Cutback Asphalt and other cutback asphalt materials shall NOT be stored in or transferred to S63. (toxics)

34. On a monthly basis, the permittee shall record in a District approved log the total volume of each liquid material throughput to S13, S59, or S63 by material name (e.g., kerosene, light vacuum gas oil, heavy vacuum gas oil, asphalt) each month and each rolling 12 consecutive month period, in gallon units or barrel units. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase)

35. Deleted May, 2001

36. Deleted May, 2001

37. Deleted May, 2001

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38. Deleted May, 2001

39. Deleted May, 2001

S3 Fixed Roof Storage Tank, TK-4601C, Storing: Heavy Vacuum Gas Oil, Capacity: 3,415,000 Gallons operated with a District approved vapor recovery system and abated by (either) A3 or A20 Mist Eliminator FIL-4610 or FIL-46500 and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S3 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S3 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S12 Fixed Roof Storage Tank, TK-4606, Storing: Untreated wastewater, Capacity: 571,000 Gallons operated with a District approved vapor recovery system and abated by (either) A1 or A3 Mist Eliminator FIL-4608 or FIL-4610 and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S12 emissions shall be contained in a District approved closed vent system as specified in Parts 93 and 96. Alternately, S12 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

40. Materials other than Heavy Gas Oil may be stored in S3, if all of the following are satisfied:

- a. the storage of each petroleum material complies with all other conditions applicable to S3
- b. the storage of each petroleum material complies with all other applicable regulatory requirements including Regulation 2-1-123
- c. the permittee keeps District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S3 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (cumulative increase, toxics)

41. The permittee shall ensure that at least 38,300,000 gallons (the 1996 calendar year baseline throughput to S3) of gas oil is throughput exclusively to S3 for storage during every rolling 12 consecutive month period, prior to transferring/storing gas oil material into another vessel for which VOC emissions are not abated with a destruction efficiency of at least 98.5%, by weight. (offsets)

42. The true vapor pressure of each and all material stored in S3 shall not exceed 0.5 psia. (cumulative increase, NSPS)

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43. Deleted. Combined with Part 32a.

44. Deleted. Redundant with Regulation 8-18.

45. All tank fittings present at S3 shall be gasketed. (BACT)

46. At the conclusion of each month, the permittee shall record in a District approved log the total volume of each and all liquid materials throughput to S3 during that month and for each rolling 12 consecutive month period, in gallon units or barrel units. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase)

47. Deleted 11/29/99. Start-up condition

S5 Asphalt Storage Tank, Fixed Roof, TK-2A, Capacity: 3,415,000 Gallons abated by either A1 or A3 Mist Eliminator [FIL-4608](#) or [FIL-4610](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S5 emissions shall be contained in a District approved closed vent system as specified in Parts 93 and 96. Alternately, S5 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S6 Asphalt Storage Tank, Fixed Roof, TK-2B, Capacity: 3,415,000 Gallons abated by either A1 or A3 Mist Eliminator [FIL-4608](#) or [FIL-4610](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S6 emissions shall be contained in a District approved closed vent system as specified in Parts 93 and 96. Alternately, S6 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S7 Asphalt Storage Tank, Fixed Roof, TK-3, Capacity: 1,050,000 Gallons abated by either A1 or A3 Mist Eliminator [FIL-4608](#) or [FIL-4610](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S7 emissions shall be contained in a District approved closed vent system as specified in Parts 93 and 96. Alternately, S7 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S8 Asphalt Storage Tank, Fixed Roof, TK-4, Capacity: 1,050,000 Gallons abated by either A1 or A3 Mist Eliminator [FIL-4608](#) or [FIL-4610](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S8 emissions shall be contained in a District approved closed vent system as specified in Parts 93 and 96. Alternately, S8 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

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S37 Asphalt Storage Tank, Fixed Roof, TK 54, Capacity: 100,000 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S37 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S37 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S38 Asphalt Storage Tank, Fixed Roof, TK-55, Capacity: 100,000 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S38 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S38 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S51 Asphalt Storage Tank TK-506; Fixed Roof Tank, Capacity: 152,880 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S51 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S51 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S52 Asphalt Storage Tank TK 507, Fixed Roof Tank, Capacity: 152,880 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S52 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S52 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S53 Asphalt Storage Tank TK 508, Fixed Roof Tank, Capacity: 152,880 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S53 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S53 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S60 Asphalt Storage Tank TK-505; Fixed Roof, Capacity: 15,000 Gallons abated by (either) A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) or A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S60 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S60

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emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S61 Asphalt Storage Tank, Fixed Roof, TK-30A, Capacity: 995,400 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S61 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S61 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S62 Asphalt Storage Tank, Fixed Roof, TK-30B, Capacity:995,400 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S62 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S62 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S65 Asphalt Storage Tank, Fixed Roof, TK-32 Tank Capacity: 6,920,000 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S65 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S65 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S70 Asphalt Additive Mixing Tank, Fixed Roof, Tank Capacity: 2,200 Gallons abated by A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S70 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S70 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

48. The sum total asphalt throughput to S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, and S65 shall not exceed 6,738,349 barrels (283,010,658 gallons) in any 12 consecutive month period. (cumulative increase, offsets)

49. For S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65, S70: Cutback asphalt materials including but not limited to SC Cutback Asphalt, MC Cutback Asphalt, and FM-1 Cutback Asphalt and other cutback asphalt materials shall not be stored in or transferred to any of the above tanks. (toxics)

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50. For S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, and S70: the true vapor pressure of each and all materials stored in each tank shall not exceed 0.5 psia. (cumulative increase, offsets)

51. For S61 and S62, the true vapor pressure of each and all materials stored in each tank shall not exceed 0.49 psia. (cumulative increase, offsets, BACT)

52. For S65, the true vapor pressure of each and all materials stored in S65 shall not exceed 0.49 psia. (cumulative increase, offsets, BACT)

53. Deleted. Redundant with Regulation 8-18

54. Deleted May, 2001.

55. Deleted. Combined with Part 32a.

56. Deleted. Combined with Part 32a.

57. Deleted. Combined with Part 32a.

58. Separately, for each of S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65, and S70, at the conclusion of each month, the permittee shall record, by material name, in a District approved log, the total volume of each liquid material throughput to each tank during that month and during each rolling 12 consecutive month period, in gallon units or barrel units. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase)

58a. Deleted Application 17468.

58b. The Owner/Operator shall install and properly maintain continuous temperature monitoring and recording devices for A31 (H-4607), Thermal Oxidizer and S24 (H-4603), Hot Oil Heater. The Owner/Operator shall operate A-31 with a minimum combustion zone temperature of 1400°F to maintain a 98.5% destruction efficiency, whenever emissions are vented to it by one or more operational vapor recovery blowers in organic vapor service. The Owner/Operator shall operate S-24 at a minimum operating temperature of 1115°F to maintain a 98.5% destruction efficiency whenever emissions are vented to it by one or more vapor recovery blowers in organic vapor service. (Source Test Requirements demonstrating compliance with the 98.5% abatement destruction efficiency and the Regulation 6-1-310 grain loading requirements were completed February 28 and 29, 2004.) (Applications 12704 for A-31 and Application 12236 for S-24 established minimum operating temperature limits) (Application 19631/19643 (2009) removed 40 CFR, Part 61 Subpart FF citations from basis. Facility has no sources controlled

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by A31 or S24 for compliance with 40 CFR, Part 61 Subpart FF.) (Basis: 40 CFR, Part 60.113b(c)(1)(ii) and 60.113b(c)(2); 40 CFR, Part 60.473c; Regulation 2-6-409.2.2, 2-6-414)

58c. The temperature limits in Part II.58b for A-31 and S24 shall not apply during an "Allowable Temperature Excursion", provided that the temperature controller setpoint remains at a minimum of 1,400°F for A31 and 1,115°F for S24. An Allowable Temperature Excursion is one of the following:

- a. A temperature excursion not exceeding 20°F; or
- b. A temperature excursion for a period or periods which when combined are less than or equal to 15 minutes in any hour; or
- 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°F;
 - ii. the duration of the excursion does not exceed 24 hours; and
 - iii. the total number of such excursions does not exceed 12 per calendar year (or any consecutive 12 month period).

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)

58d. For each Allowable Temperature Excursion that exceeds 20°F. and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of 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)

58e. For the purposes of Parts II.58c and II.58d, a temperature excursion refers only to temperatures below the limit (basis: Regulation 2-1-403)

58f. For the purposes of parts II.58c and II.58d, a temperature excursion occurs only

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when one or more vapor recovery system blowers is operating in organic vapor service, and is vented to A-31 (H-4607) or S-24 (H-4603). When a blower is used to start up A-31 or S-24, the blower is in "fresh air" service and not in organic vapor service. (basis: Regulation 2-1-403)

S14 Deleted (S14 is no longer in service)

59. Deleted (S14 is no longer in service)

60. Deleted (S14 is no longer in service)

61a. Deleted (S14 is no longer in service)

61b. Deleted (S14 is no longer in service)

S15 Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

62. Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

62a. Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

62b. Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

63. Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

64a. Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

64b. Deleted (S15 is no longer in service, the gas oil stream is routed to the Refinery for further processing)

S17 Asphalt Loading Racks abated by A2 Mist Eliminator FIL-4609 and A17 Thermal Oxidizer H-46100

S31 Rail Car Loading Rack; 5 Loading Arms, Loading: Asphalt and Light Vacuum Gas Oil abated by A6 Mist Eliminator FIL-4603 and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S31 emissions shall be contained in a District

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approved closed vent system as specified in Parts 94 and 96. Alternately, S31 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

S54 Asphalt Loading Rack abated by (either) A3 or A20 Mist Eliminator [FIL-4610](#) or [FIL-46500](#) and A31 Thermal Oxidizer H-4607. If A31 and the vapor recovery blower are inoperative, S54 emissions shall be contained in a District approved closed vent system as specified in Parts 94 and 96. Alternately, S54 emissions shall be vented to source S24, Hot Oil Heater (H-4603), as a backup until A31 is operating. (cumulative increase)

65. S17 shall be abated by A2 Mist Eliminator [FIL-4609](#) and A17 Incinerator H-46100 at all times that materials are transferred at S17. (cumulative increase)

66. [Deleted. Combined with part 32a]

67. [Deleted. Combined with part 32a]

68. Emissions from S17 shall be captured by a District approved vapor recovery system and shall be abated by A2 Mist Eliminator [FIL-4609](#) and A17 Incinerator H-46100 with a destruction efficiency of at least 98.5%, by weight, as measured across A17. (cumulative increase, BACT)

69. Deleted. Combined with Part 32a.

70. Deleted. Combined with Part 32a.

71. The true vapor pressure of the materials transferred at or sampled from S17 and/or S 54 shall not exceed 0.5 psia except for 5,500 Barrels per year of kerosene when required to produce medium-cure cutback asphalt products. (cumulative increase, offsets)

72. The true vapor pressure of the materials transferred at or sampled from S31 shall not exceed 1.5 psia, unless the material contains asphalt. (cumulative increase, toxics, offsets)

72a. To monitor compliance with the standard in BAAQMD Regulation 8-6-306 for vapor tightness of equipment associated with organic liquid delivery and loading operations at S31, the owner/operator shall inspect the equipment using EPA Method 21 on a quarterly basis. (Regulation 2-6-503)

72b. To monitor compliance with the standard in BAAQMD Regulation 8-6-306 for leak-free equipment associated with organic liquid delivery and loading

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operations at S31, the owner/operator shall inspect the equipment on a quarterly basis. (Regulation 2-6-503)

73. If asphalt or any asphalt containing material or any material blended with asphalt is transferred at or sampled from S31, the true vapor of the material may not exceed 0.5 psia. (cumulative increase, toxics, offsets)

74. The total combined throughput of asphalt and all asphalt containing materials to S17, S31, and S54 shall not exceed 283,011,000 gallons during any consecutive 12-months. (cumulative increase, offsets)

75. The permittee shall maintain a District approved log of the monthly throughput of asphalt and all asphalt containing materials to S17, S31, and S54 in gallon units or barrel units during each month and during each rolling 12 consecutive month period, in gallon units or barrel units. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase)

76. Deleted May, 2001.

77. Deleted May, 2001.

78. Deleted May, 2001.

79. Deleted May, 2001.

80. Deleted May, 2001.

81. Deleted May, 2001.

82. Deleted May, 2001.

S66 Deleted (S66 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

83. Deleted (S66 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

84. Deleted (S66 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

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85. Deleted. Combined with Part 32a.

86. Deleted. Redundant with Regulation 8-18.

87. Deleted (S66 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

88. Deleted (S66 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

89. Deleted 2001.

S16 Truck Loading Rack-Heavy Vacuum Gas Oil

90. The true vapor pressure of the materials transferred at and/or sampled from S16 shall not exceed 0.49 psia. (cumulative increase)

91. The total throughput of materials transferred through S16 shall not exceed 25,749,000 gallons (613,000 barrels) during any consecutive 12-months. (cumulative increase)

91a. The permittee shall maintain a District approved log of the monthly throughput of materials transferred at S16 in gallon units or barrel units during each month and during each rolling 12 consecutive month period, in gallon units or barrel units. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (cumulative increase)

S41 Deleted (S41 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

92. Deleted (S41 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

92a. Deleted (S41 is no longer in service, the untreated wastewater stream is routed to the Refinery for further processing).

93. The following sources, which shall be operated with a District approved closed vent system, are connected to vapor recovery collection header #1 and vapor recovery blower B-4608 or spare blower B-46501: S5, S6, S7, S8, S12, S26, S28, S59, and S67. Emissions are contained in the closed vent collection header when the blower is not operating, as long as no P/V valve in the header is lifting. The pressure of each of the three headers at a representative location shall be monitored at least once every 8 hours, whenever the

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vapor recovery blower is not operating. If the manometer pressure of any header exceeds 0.5 ounces (0.87 inches of water column), A-31 or S-24 shall be restarted and emissions conveyed to it by the blower. (basis: cumulative increase)

94. The following sources, which shall be operated with a District approved closed vent system, are connected to vapor recovery collection header #2 and vapor recovery blower B-46500 or spare blower B-46501: S3, S13, S31, S37, S38, S51, S52, S53, S54, S60, S61, S62, S63, S65, and S70. Emissions are contained in the closed vent collection header whenever a blower is not operating, as long as no P/V valve in the header is lifting. The pressure of the each of the three headers at a representative location shall be monitored at least once every 8 hours, whenever the vapor recovery blower is not operating. If the manometer pressure of any header exceeds 0.5 ounces (0.87 inches of water column), A-31 or S-24 shall be restarted and emissions conveyed to it by the blower. (basis: cumulative increase)

95. To determine compliance with Parts 93 and 94, 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. All manometer pressures of each of the three headers abated by A-31 or S-24
- b. Date and time when the blower is down and which abating equipment (A-31, closed vent system or S-24) is in operation
- c. Reason why the blower is down

All 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)

96. The owner/operator of S3, S5, S6, S7, S8, S12, S13, S26, S28, S31, S37, S38, S51, S52, S53, S54, S59, S60, S61, S62, S63, S65, S67 and S70 shall not use any P/V valve that leaks total organic compounds in excess of 500 ppmv when the vapor recovery blower is not operating. Any exceedance of this limit will result in a violation, except for P/V valve that is subject to Regulation 8-18 and is already on the non-repairable list. (basis: to allow the use of closed vent system in lieu of A-31 or S-24)

97. The owner/operator of S26 shall not exceed 87,249,600 gallons of untreated wastewater during any consecutive twelve-month period.
(Basis: Cumulative Increase)

VI. Permit Conditions

98. The owner/operator of S12 and S28 shall not exceed a combined throughput of 87,249,600 gallons of untreated wastewater during any consecutive twelve-month period. (Basis: Cumulative Increase).

99. The owner/operator of S67 shall not exceed 87,249,600 gallons of untreated wastewater during any consecutive twelve-month period. (Basis: Cumulative Increase)

100. The Owner/Operator may store alternate liquids(s) other than the materials specified in Parts 97, 98 and 99 and/or usages in excess of those specified in Part 97, 98 and 99 provided that the owner/operator can demonstrate that all of the following are satisfied:

- a. Total POC abated emissions from:
S-26 does not exceed 264 pounds;
Combined S12 and S28 do not exceed 629 pounds; and
S67 does not exceed 196 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)

101. To determine compliance with Parts 97, 98, 99 and 100 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 these sources on a monthly basis
- b. If a material other than those specified in parts 97, 98 and 99 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 100, on a monthly basis:
- c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period

All records shall be retained on-site for 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)

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III. MARINE OPERATIONS CONDITIONS-S30, Part 1 through 9, deleted because S30 was not in service since April 5, 2005
(Cumulative Increase)

IV. ODOR REDUCTION MEASURES (Added per AN 14513, 9/95)

*1. The permit holder will maintain water seals, P-traps, caps, covers or equivalent on all process water drains. (1-301)

*2. The permit holder will implement an Asphalt Tank Truck Dome Inspection Program for all asphalt tank trucks that they load. If a truck enters the facility with a leaking or malfunctioning dome lid, the permit holder will take the following action.

*a. First occurrence in rolling twelve month period: the permit holder will orally notify the truck driver and dispatcher of the faulty dome lid, and request that the lid be repaired prior to the truck re-entering the facility.

*b. Second occurrence in a rolling twelve month period: the permit holder will notify the driver and the trucking company in writing that if the truck enters the facility again with a malfunctioning dome hatch, the permit holder will not load the truck until the hatch has been repaired.

*c. Third occurrence in a rolling twelve-month period: the permit holder will not load the truck. The permit holder will also notify the driver and dispatcher, verbally and in writing, that the truck will not be loaded until the hatch has been repaired, and the repair has been inspected or repair documentation has been received by the permit holder to ensure that the hatch is in proper working order.

*The permit holder shall keep records of all inspections and notifications. These records shall be made available to the District upon request.
(1-301)

*3. The permit holder shall provide written notification of the Asphalt Tank Truck Dome Inspection Program to any additional trucking company that may do business with the permit holder in the future, within two weeks of the first asphalt receipt. (1-301)

V. OTHER SOURCES

VI. Permit Conditions

S24 Hot Oil Heater H-4603; Max Firing Rate 9 MM BTU/hr

1. Respective emissions of nitrogen oxides, and carbon monoxide (CO) from S24 shall not exceed 30 ppm and 50 ppm at 3% O₂. (Cumulative Increase)

Condition #18796

For S68 and S71, Emergency Diesel-powered Firewater Pump and Air Compressor

*1. The engine for emergency firewater pump S-68 and the engine for emergency air compressor S71 shall be fired exclusively on diesel fuel having a sulfur content no greater than 0.05% by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. (Basis: Cumulative Increase)

DELETED - Condition# 19329

For Sources S20, S21, Steam Boilers

APPLICATION 16937 for B2626 (Jan 2009), VIP Amendments. Condition to be deleted upon expiration of NO_x IERCs

Application 22724, A0901, Removal of S-19 and S-24

Application No. 27600, Change of Conditions – Removal of Condition 19329 because NO_x IERCs are no longer used for Reg 9, Rule 10 compliance per alternate compliance option provided in 9-10-308.

~~Conditions will be imposed on all of the sources in the NO_x Compliance Plan to limit the maximum firing rates to the numbers presented in the Plan. For those sources in Phase I, the added condition will read as follows:~~

~~*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, Cumulative Increase)~~

~~Valero Refining Company (Plant # 12626)~~

~~S-7 Pipestill Hydrofiner Furnace: F-103, 53 MMBtu/Hr~~

~~S-20 Naphtha Hydrofiner Furnace: F-104, 62 MMBtu/Hr~~

~~S-21 Hydrogen Reforming Furnace: F-301, 614 MMBtu/Hr~~

~~S-22 Hydrogen Reforming Furnace: F-351, 614 MMBtu/Hr~~

~~S-23 HCU Recycle Gas Furnace: F-401, 200 MMBtu/Hr~~

VI. Permit Conditions

~~S-24 Cat Feed Hydrofiner Treat Gas Furnace: F-601, 33 MMBtu/Hr~~
~~S-25 Fluid Catalytic Cracker Unit: F-701, 230 MMBtu/Hr~~
~~S-26 Cat Naphtha Hydrofiner Furnace: F-801, 33 MMBtu/Hr~~
~~S-30 S-S33 Power former Furnace: F-2901 thru 2904, 463 MMBtu/Hr~~
~~S-34 Powerformer Regenerator Furnace: F-2905, 74 MMBtu/Hr~~
~~S-35 Powerformer Reactivation Furnace: F-2906, 14 MMBtu/Hr~~
~~S-40 Utility Package Boiler: SG-2301, 218 MMBtu/Hr~~
~~S-41 Utility Package Boiler: SG-2301, 218 MMBtu/Hr~~
~~S-173 Coker Steam Superheat Furnace: F-902, 20 MMBtu/Hr~~
~~S-220 MRU Hot Oil Furnace: F-4460, 351 MMBtu/Hr~~

~~Valero Asphalt Plant (Plant # 1A0901)~~

~~S-20 Steam Boiler: H-2A, 14.7 MMBtu/Hr~~

~~S-21 Steam Boiler: H-2B, 14.7 MMBtu/Hr~~

- ~~*2. The applicant shall submit quarterly reports and an annual report (July 1 to June 30) of their ACP activity no later than 30 days after the close of the specified period. (Basis: Regulation 2-9-303.3)~~
- ~~*3. The applicant shall submit all necessary documents to the District to review and approve (or deny) the Alternative Compliance Plan. These documents in support of continuing the ACP shall be submitted no later than 30 days after the close of the calendar year. (Basis: Regulation 2-9-303.3)~~
- ~~*4. The applicant shall maintain all records required in 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 20278

For Sources S69, Asphalt Additive Loading Bin, and S70, Asphalt Additive Mixing Tank

1. The annual throughput of asphalt (excluding additives) at S-70 shall not exceed 400,000 tons during any consecutive 12-month period. (Basis: Regulation 2-2-212, Cumulative Increase)
2. The annual throughput of additives at S-69 shall not exceed 20,000 tons during any consecutive 12-month period. (Basis: Regulation 2-2-212, Cumulative Increase)
3. Deleted. Combined with Condition 1240, Part II.32a.

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- *4. Visible dust and smoke emissions from S-69 and S-70 shall not result in fallout on adjacent property in such quantities so as to cause a public nuisance as described in Regulation 1-301 (Basis: Regulation 1)
5. Deleted 2004 reopening.
6. In order to demonstrate compliance with the above permit conditions, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made.
 - a. Total daily throughput of modified asphalt at S-70 and additives at S-69
 - b. Deleted 2004 reopening.
 - c. The daily throughput of product shall be totaled on a monthly basis.
 - d. Results of all visible emissions checks and any corrective action
(Basis: Regulation 2-6-501)
7. A visible emissions check shall be performed on S69 on an annual basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action, and check for visible emissions the next time that the equipment is operated. If no visible emissions are detected, the operator shall continue to check for visible emissions on an annual basis.
(basis: 2-6-409.2)

Condition 20762

For Refinery and Asphalt Plant:

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

VI. Permit Conditions

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)

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DELETED - Condition 21233

Valero Refining Company – California
 3400 E. Second Street
 Benicia, Ca 94510

~~Application 11307 (B2626)~~

~~Application 11356 (A0901, 13193)~~

~~S-20 (B2626) Modified by Application 12701~~

~~S-19 (A0901) Modified by Application 13011 and 15805~~

~~Application 22602 (B2626 – source test submittal dates)~~

~~Application 22609 (A0901 – source test submittal dates)~~

~~Application 22724 (A0901 – removal of S-19 (A0901))~~ Application 23451 (A0901 – NOx Box low firing definition)

~~Application 23454 (B2626 – NOx Box low firing definition)~~

~~Application 23454 (B2626, S-26 NOx Box Revision)~~

~~Application 27720 (B2626), Change of Conditions – Replace Condition 21233 with Condition 26250 to add new NOx/CO CEMs for B2626 S-7, S-20, S-24, AND S-26 per 9-10-502.1.1 and to utilize NOx emissions factors for sources without NOx CEMS for Reg 9, Rule 10 compliance per alternate compliance option provided in 9-10-308.~~

Application 27600 (A0901), Change of Conditions – Replace Condition 21233 with Condition 26250 to add new NOx/CO CEMs for B2626 S-7, S-20, S-24, and S-26 per 9-10-502.1.1 and to utilize NOx emissions factors for sources without NOx CEMS for Reg 9, Rule 10 compliance per alternate compliance option provided in 9-10-308.

~~Plant B2626 and A0901~~

~~Regulation 9-10 Refinery Wide Compliance~~

- ~~The following sources are subject to the refinery wide NOx emission rate and CO concentration limits in Regulation 9-10: (Basis: Regulation 9-10-301 & 305)~~

~~Facility No. B2626, Valero Refining Company~~

S#	Description	NOx CEM
7	F 103 Jet Fuel HF, 53 MMBtu/hr	No
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

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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>
20	Steam Boiler, H 2A, 14.7 MMBtu/hr	No
21	Steam Boiler, H 2B, 14.7 MMBtu/hr	No

- A. ~~Compliance with the daily refinery wide average NOx emission limit, 0.033 lb NOx/MMBtu fired duty is achieved through the use of an approved Alternate Compliance Plan using NOx IERCs in accordance with the provisions in Regulation 2-9-303.~~
- B. ~~The owner/operator of each source listed in Part 1 above shall determine compliance with Regulation 9-10 as follows:~~
- ~~1) Calculate NOx emissions from each furnace using measured fuel gas rates, and either:
 - a. CEM data or
 - b. NOx emission factors from Part 5A~~
 - ~~2) The daily refinery wide average emission rate shall be determined by dividing the combined total emissions from sources listed in Part 1 above by the combined total heat input.~~
 - ~~3) Sufficient NOx IERC's will be provided in accordance with the provisions of Regulation 2-9-303 to ensure compliance with the refinery wide average NOx emission limit of 0.033 lb NOx/MMBtu fired duty.~~
2. ~~The Owner/Operator of each source with a maximum firing rate greater than 25 MMBtu/hr listed in Part 1 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. (Basis: Regulation 9-10-502)~~

VI. Permit Conditions

~~3. The Owner/Operator shall operate each source listed in Part 1, which does not have a NO_x CEM, within specified ranges of operating conditions (firing rate and oxygen content) as detailed in Part 5. The ranges shall be established by utilizing data from District approved source tests. (Basis: Regulation 9 10 502)~~

~~A. The NO_x Box for units with a maximum firing rate of 25 MMBtu/hr or more shall be established using the procedures in Part 4.~~

~~B. The NO_x Box for units with a maximum firing rate less than 25MMBtu/hr shall be established as follows: High fire shall be the maximum rated capacity. Low fire shall be 20% of the maximum rated capacity (except for S-35, for which the low fire shall be 8% of the maximum rated capacity). There shall be no maximum or minimum O₂.~~

~~4. The Owner/Operator shall establish the initial NO_x box for each source subject to Part 3 by December 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.~~

~~D. Plot the points representing the desired operating ranges on a graph. The resulting polygon(s) are the NO_x Box, which represents the allowable operating range(s) for the furnace under which the NO_x emission factor from part 5a is deemed to be valid.~~

~~1). The NO_x Box can represent/utilize either one or two emission factors.~~

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~~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)~~

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~~A. NOx Box ranges. The limits listed below are based on a calendar day averaging period for both firing rate and O₂.~~

Source No.	Emission Factor (lb/MMBtu)	Min-O ₂ -at Low-Firing (O ₂ %, MMBtu/hr)	Max-O ₂ -at Low-Firing (O ₂ %, MMBtu/hr)	Min-O ₂ -at High Firing (O ₂ %, MMBtu/hr)	Mid-O ₂ -at Mid/High Firing (polygon) (O ₂ %, MMBtu/hr)	Max-O ₂ -at High Firing (O ₂ %, MMBtu/hr)
Plant 12626						
7	0.35	3,16	17,10	6,30	N/A	11,38
20	0.28	2,19	12,23	2,37	2,50	5,47
24	0.757	11,7	14,8	3,27	6,12	7,29
26	0.194	13,9	17,7	6,21	8,17	12,24
34	0.250	17,2	20,2	4,26	N/A	7,38
35	0.200	{Note 1}, 1	{Note 1}, 1	{Note 1}, 14	N/A	{Note 1}, 14
173	0.050	{Note 1}, 4	{Note 1}, 4	{Note 1}, 20	N/A	{Note 1}, 20
Plant A0901 (13193)						
S-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), during startup or shutdown periods, or periods of curtailed operation (ex. during heater idling, refractory dry out, etc.) lasting 5 days or less. During these conditions the means for determining compliance with the refinery wide limit shall be accomplished using the method described in 9-10-301.2 (i.e. units out of service & 30-day averaging data).~~

~~C. Part 5A does not apply during any source test required or permitted by this condition. See Part 7 for the consequences of source test results that exceed the emission factors in Part 5.~~

~~6. NOx Box Deviations (Basis: Regulation 9-10-502).~~

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~~A. The Owner/Operator may deviate from the NO_x 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 60 days of the test. As necessary, a permit amendment shall be submitted.~~

~~1. Source Test \leq Emission Factor~~

~~If the results of this source test do not exceed the higher NO_x 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 NO_x Box operating range(s), based on the new test data.~~

~~2. Source Test $>$ Emission Factor~~

~~If the results of this source test exceed the permitted emission concentrations or emission rates then the actions described below must be followed:~~

~~a. Utilizing the measured emission concentration or rate, the Owner/Operator shall perform an assessment of compliance with Regulation 9-10-301 as follows:~~

~~1. "Out of Box" Condition — for the day(s) in which the "out of box" condition(s) occurred, the Owner/Operator shall ensure sufficient NO_x 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 NO_x 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~~

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~~emission factor, the Owner/Operator shall apply the higher emission factor retroactively to the date of the previous source test and provide sufficient NO_x 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 NO_x 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 NO_x emission factor and/or adjust the operating range, based on the new test data.~~

~~B. Reporting. The Owner/Operator must report conditions outside of box within 96 hours of occurrence.~~

~~7. For each source subject to Part 3, the Owner/Operator shall conduct source tests on the schedule listed below. The source tests are performed in order to measure NO_x, CO, and O₂ at the as found firing rate, or at conditions reasonably specified by the APCO. The source test results shall be submitted to the District Source Test Manager within 60 days of the test. (Basis: Regulation 9-10-502)~~

~~A. Source Testing Schedule~~

~~1) Heater < 25 MMBtu/hr~~

~~Annual source test. The time interval between source tests shall not exceed 16 months. The source test results shall be submitted to the District Source Test Manager within 60 days of the test.~~

~~2) Heaters ≥ 25 MMBtu/hr~~

~~Two source tests per consecutive 12 month period. The time interval between source tests shall not exceed 8 months and not be less than 5 months apart. The source test results shall be submitted to the District Source Test Manager~~

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~~within 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)~~

Condition 22851

S-68, Diesel Firewater Pump Engine

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

VI. Permit Conditions

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 9-8-330]

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(d)(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(f)]

Condition 22928

The following permit condition will apply to S-71:

Valero Benicia Asphalt Plant
Plant 13193

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S-71, Diesel Emergency Air Compressor, Caterpillar 3054C, 108 BHP,
abated by A-71, Catalyzed Diesel Particulate Filter, CleanAIR Systems

1. The owner or operator shall operate S-71, stationary emergency standby engine, only to mitigate emergency conditions or for reliability-related activities (maintenance and testing). Operating while mitigating emergency conditions and while emission testing to show compliance with this part is unlimited. Operating for reliability-related activities is limited to 50 hours per year.

(Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)(2)(b))

2. The owner/operator shall equip S-71 emergency standby engine(s) with:

- a. a non-resettable totalizing meter, with a minimum display capability of 9,999 hours, that measures the hours of operation for the engine; and
- b. a Diesel particulate filter backpressure monitor that notifies the owner/operator that the backpressure limit of the engine is approached.

(Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1))

3. 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 locations, and made immediately available to the District staff upon request.

- a. Hours of operation (emergency).
- b. Hours of operation (maintenance and testing).
- c. Hours of operation for emission testing to show compliance with emission limits.
- d. Initial Startup hours.
- e. For each emergency, the nature of the emergency condition.
- f. Hours of operation for any use other than those specified in 3a through 3d above.
- g. CARB Certification Executive Order for the engine.

(Basis: BAAQMD Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f) Regulation 1-441)

Condition 26250

Application No. 27570, Alternate NOx Compliance Plan for utilization of alternate compliance option provided in 9-10-308.

Application No. 27600, Change of Conditions – New Condition to replace Condition 21233 to add new NOx/CO CEMs for B2626 S7, S20, S24, and S26 per 9-10-502.1.1 and to utilize NOx emissions factors for sources without NOx CEMS for Reg 9, Rule 10 compliance per alternate compliance option provided in 9-10-308.

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Plant B2626 and A0901
Regulation 9-10 Compliance

1. The owner/operator of the following sources are subject to the refinery-wide daily mass NOx emission limit in Part 9 and the CO concentration limits in Regulation 9-10: (Basis: Regulation 9-10-~~301~~, 303, 305 & 308)

Facility No. B2626, Valero Refining Company

S#	Description	NOx CEM	CO CEM	NOx
				Emission Factor Lb/MMBtu
7	F-103 Jet Fuel HF, 53 MMBtu/hr	Yes	Yes	
20	F-104 Naphtha HF, 62 MMBtu/hr	Yes	Yes	
21	F-301 Hydrogen, 614 MMBtu/hr	Yes	No	
22	F-351 Hydrogen, 614 MMBtu/hr	Yes	No	
23	F-401 Gas Oil HC, 200 MMBtu/hr	Yes	No	
24	F-601 Cat Feed HF, 33 MMBtu/hr	Yes	Yes	
25	F-701 Cat Feed, 230 MMBtu/hr	Yes	No	
26	F-801 HCN HF, 33 MMBtu/hr	Yes	Yes	
30	F-2901 PFR Preheat, 463 MMBtu/hr total	Yes	No	
31	F-2902 PFR Preheat, 463 MMBtu/hr total	Yes	No	
32	F-2903 PFR Preheat, 463 MMBtu/hr total	Yes	No	
33	F-2904 PFR Preheat, 463 MMBtu/hr total	Yes	No	
34	F-2905 PFR Regen Gas, 74 MMBtu/hr	No	No	0.250
35	F-2906 PFR React Gas, 14 MMBtu/hr	No	No	0.200
40	SG-2301 Steam Gen, 218 MMBtu/hr	Yes	No	
41	SG-2302 Steam Gen, 218 MMBtu/hr	Yes	No	
173	F-902 Coker Steam Superheat, 20 MMBtu/hr	No	No	0.050
220	F-4460 MRU Hot Oil, 351 MMBtu/hr	Yes	Yes	

Facility No. A0901 (13193), Valero Benicia Asphalt Plant

S#	Description	NOx CEM	CO CEM	NOx
				Emission Factor Lb/MMBtu
20	Steam Boiler, H-2A, 14.7 MMBtu/hr	No	No	0.055
21	Steam Boiler, H-2B, 14.7 MMBtu/hr	No	No	0.055

2. For sources listed in Part 1 without a NOx CEMS, the owner/operator shall conduct source tests on the schedule listed below to demonstrate compliance with the Part 1 NOx emission factor. The source tests are performed in order to measure NOx 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 60 days of the test. (Basis: Regulation 9-10-502.1.2)

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- a. Annual source test for sources rated less than 25 MM Btu/hr. The time interval between source tests shall not exceed 16 months.
 - b. Semi-annual source test for sources rated 25 MM Btu or more. The time interval between source tests shall be no less than 5 months and no more than 8 months.
 - c. For sources that have been shut down longer than the period allowed between source testing periods, the required source tests may be delayed until the source returns to service.
3. For sources listed in Part 1 without a NOx CEMS, the owner/operator shall use the new higher emission factor for determining compliance with the Part 1 NOx emission factor if a source test conducted for Part 2 measures an emission factor higher than the emission factor listed in Part 1. The owner/operator may re-test at operating conditions substantially similar to those during the original test and appeal the change in emission factor to the APCO within 60 days. (Basis: Regulation 9-10-502.1.2)
4. For sources listed in Part 1 without a NOx CEMS, the owner/operator may submit source test data with a permit application to establish a lower emission factor for Part 1 for a device that has been altered in a way that reduces the emission rate. The APCO may require that a source test be performed at a specific operating condition if the APCO determines that such a condition is a representative operating condition that has not been previously tested. Source test results shall be submitted to the APCO within 60 days of any test. (Basis: Regulation 9-10-502.1.2)
5. 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)
6. For sources listed in Part 1 without a CO CEM, the Owner/Operator shall conduct a District-approved source test on the schedule listed below to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The source tests are performed in order to measure 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 60 days of the test. (Basis: Regulation 9-10-305).
 - a. Annual source test for sources rated less than 25 MM Btu/hr. The time interval between source tests shall not exceed 16 months.
 - b. Semi-annual source test for sources rated 25 MM Btu or more. The time interval between source tests shall be no less than 5 months and no more than 8 months.

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- c. For sources that have been shut down longer than the period allowed between source testing periods, the required sources tests may be delayed until the source returns to service.
7. For any source listed in Part 1 without a CO CEM and 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)
8. The owner/operator must maintain records of CEM and parametric monitoring system measurements, hourly and daily NO_x emissions, and source tests conducted to demonstrate compliance with Parts 1 and 9. 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)
9. The owner/operator of all sources listed in Part 1 shall comply with the daily mass NO_x emission limit of 4,484.3 lb/day through the use of an approved Alternate NO_x Compliance Plan (ANCP). (Basis: Regulation 9-10-308)
10. The owner/operator of each source listed in Part 1 shall determine compliance with Part 9 as follows: (Basis: Regulation 9-10-308)
- a. Calculate NO_x emissions from each furnace using measured fuel gas rates, and either:
 - i. NO_x CEM data, or
 - ii. NO_x emission factor from Part 1 for sources S-34, S-35, S-173 at Valero Refinery, and sources S-20 and S-21 at Valero Asphalt Plant
 - b. The daily mass NO_x emission rate shall be determined by summing total emissions from sources listed in Part 1 above.
11. The owner/operator of each source listed in Part 1 that is temporarily out of service or in start-up, shutdown or in curtailed operation shall determine compliance with Part 9 by calculating NO_x emissions from each furnace using measured NO_x CEM data or the emission factor listed in Part 1 and operating day heat input. (Basis: Regulation 9-10-406)
12. The applicant shall submit quarterly reports of their ANCP activity no later than 30 days after the close of each calendar quarter. (Basis: Regulation 9-10-505.2)

Condition # 26298

APPLICATION 27939 (May 2016): Consolidated Consent Decree Termination to add Condition 26298, Part 1 to ensure that burning of fuel oil in Valero refinery heaters and boilers is prohibited.

VI. Permit Conditions

1. The owner/operator of Valero Refinery shall not burn fuel oil in its heaters and boilers.
(Basis: Regulation 2-1-403)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only 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 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), or on an event basis (E). 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. 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),

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
ASPHALT PLANT-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
NOx	Condition 1240, Part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a and I.18j	P/SA	Calculations
<u>H₂S</u>	<u>40 CFR Part 60 Subpart J 60.104(a)(1)</u>	<u>Y</u>		<u>Fuel gas H₂S concentration limited to 162 ppmv (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>40 CFR Part 60 Subpart J 60.105(a)(4) (AMPs for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>P/Event</u>	<u>Grab Samples</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
ASPHALT PLANT-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
H ₂ S	40 CFR Part 60 Subpart Ja 60.102a(g)(1)(ii)	Y		Fuel gas H ₂ S concentration limited to 162 ppmv (Tank Degassing and Vapor Control Projects at Petroleum Refineries)	40 CFR Part 60 Subpart Ja 60.107a(a)(2) (AMPs for Tank Degassing and Vapor Control Projects at Petroleum Refineries)	P/Event	Grab Samples
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 hr)	BAAQMD 9-1-501, and 9-1-110 BAAQMD Manual of Procedures, Volume VI and SIP Manual of Procedures, Volume VI	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 BAAQMD Manual of Procedures, Volume VI and SIP Manual of Procedures, Volume VI	C	H ₂ S GLM
SO ₂	Condition 1240, part I.14	Y		Emissions of SO ₂ < 28.049 tons per year	None	N	N/A
H ₂ S	BAAQMD 9-1-313.2	N		Recovery of 95% of H ₂ S in refinery fuel gas	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
Benzene	40 CFR, Part 61.342(e)(2)(i)	Y		Uncontrolled benzene < 6 megagrams/year	40 CFR, Part 61.357(d)(5)	P/A	Report
Benzene	40 CFR, Part 61.345(b)	Y		Visual inspection of container covers	40 CFR, Part 61.345(b)	P/Q	Visual Inspection
Benzene	40 CFR, Part 61.346(b)	Y		Benzene Waste NESHAP quarterly visual inspection for	40 CFR, Part 61.346(b)(4)(iv)	P/Q	Visual Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
ASPHALT PLANT-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
	(3)			cracks in exposed sewer lines (applies to naphtha tank (S9) fill line and naphtha transfer line to Refinery)			
Benzene	40 CFR, Part 61.342(e)(2)(i)	Y		Uncontrolled benzene < 6 megagrams/year	40 CFR, Part 61.357(d)(5)	P/A	Report
Benzene	40 CFR, Part 61.345(b)	Y		Visual inspection of container covers	40 CFR, Part 61.345(b)	P/Q	Visual Inspection
Benzene	40 CFR, Part 61.346(b)(3)	Y		Benzene Waste NESHAP quarterly visual inspection for cracks in exposed sewer lines (applies to naphtha tank (S9) fill line and naphtha transfer line to Refinery)	40 CFR, Part 61.346(b)(4)(iv)	P/Q	Visual Inspection
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	BAAQMD 8-5-501.1	P/E	Record
Vapor Pressure	Condition 20762, part 1	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	Condition 20762, parts 1 and 3	P/E	Record or Laboratory Sample Test
Vapor Pressure	40 CFR, Part 60.110b(b)	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	None	N	N/A
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, and I.18j	P/SA	Calculations
VOC	BAAQMD 8-5-328 SIP 8-5-328.1.2	Y		Tank degassing control device standard; includes 90% abatement efficiency requirement.	BAAQMD 8-5-502.2 SIP 8-5-502	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
ASPHALT PLANT-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 8-8-312	N		Controlled WW collection system components: vapor tight	BAAQMD 8-8-402.4 8-8-504 8-8-603	P/SA	Method 21
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
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
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
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
VOC	BAAQMD 8-10-301	N		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	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.
VOC	SIP	Y		Abatement of	SIP	P/E	Records of

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
ASPHALT PLANT-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
	8-10-301			emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401		hydrocarbon concentration and 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.
<u>VOC</u>	<u>BAAQMD 8-53-301</u>	<u>N</u>		<u>500 ppmv, as methane or 95% abatement efficiency</u>	<u>BAAQMD 8-53-501</u>	<u>P/E during loading</u>	<u>Method 21, 25A, of ST-7</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S3, GAS OIL STORAGE TANK, TK-4601C

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	BAAQMD 8-5-501.1	P/E	Record
Vapor Pressure	Condition 20762, part 1	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	Condition 20762, parts 1 and 3	P/E	Record or Laboratory Sample Test
VOC	BAAQMD 8-5-328 SIP 8-5-328.1.2	Y		Tank degassing control device standard; includes 90% abatement efficiency requirement.	BAAQMD 8-5-502.2 SIP 8-5-502	P/A	Source test
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18c and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.41	Y		38,300,000 gallons of gas oil must be transferred to S3 every 12-month period before gas oil is stored in a tank without 98.5% control	Condition 1240, part II.46	P/M	Records
VOC	Condition 1240, part II.42	Y		Vapor pressure shall not exceed 0.5 psia	Condition 1240, part II.46	P/M	Records
VOC	Condition 1240, II.32a	Y		98.5% destruction of vapors whenever petroleum and VOC materials stored	Condition 1240, II.58b	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B
 Applicable Limits and Compliance Monitoring Requirements
 S3, GAS OIL STORAGE TANK, TK-4601C**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	Condition 1240, part II.94	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.94	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
NESHAPS CC	40 CFR Part 63, Subpart CC - NESHAPS for Petroleum Refineries						
	40 CFR Part 63, Subpart WW – NESHAP for Storage Vessels – Control Level 2						
	RECORDKEEPING ONLY						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.655(i)(1)(iv) and (vi)	P/E	Record

**Table VII - C
 Applicable Limits and Compliance Monitoring Requirements
 S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
 ASPHALT STORAGE 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 in any hour	Condition 1240, II.58b	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, II.58b	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
ASPHALT STORAGE TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
Opacity	40 CFR, Part 60.472(c)	Y		0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning	40 CFR, Part 60.473(c) 60.474(c)(5) Condition 1240, II.58b	C	Temperature CPMS
FP	BAAQMD 6-1-310	N		0.15-gr/dscf	Condition 1240, II.58b	C	Temperature CPMS
FP	SIP 6-310	Y		0.15-gr/dscf	Condition 1240, II.58b	C	Temperature CPMS
Vapor Pressure	BAAQMD 8-5-117 SIP 8-5-117	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	BAAQMD 8-5-501.1	P/E	Record
Vapor Pressure	Condition 20762, part 1	Y		True vapor pressure not greater than 0.5 psia if tank operating in exempt service	Condition 20762, parts 1 and 3	P/E	Record or Laboratory Sample Test
VOC	BAAQMD 8-15-305	Y		None	BAAQMD 8-15-501	P/E	Records
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18c and I.18j	P/SA	Calculations
VOC S5, S6, S7, S8, S37, S38, S51, S52, S53, S60	Condition 1240, II.50	Y		Vapor pressure may not exceed 0.5 psia	Condition 1240, II.58	P/M	Records
VOC	Condition 1240,	Y		Vapor pressure may	Condition	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - C
 Applicable Limits and Compliance Monitoring Requirements
 S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
 ASPHALT STORAGE TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
S61, S62	II.51			not exceed 0.49 psia	1240, II.58		
VOC S65	Condition 1240, II.52	Y		Vapor pressure may not exceed 0.49 psia	Condition 1240, II.58	P/M	Records
VOC	Condition 1240, II.32a	Y		98.5% destruction of vapors whenever petroleum and VOC materials stored	Condition 1240, part II.58b	C	Temperature CPMS
VOC S5, S6, S7, S8	Condition 1240, part II.93			Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting	Condition 1240, part II.93	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
VOC S37, S38, S51, S52, S53, S60, S61, S62, S65	Condition 1240, part II.94	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.94	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
Through-put limit	Condition 1240, II.48	Y		6,738,349 barrels/yr total for S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, and S65	Condition 1240, II.58	P/M	Records
NESHAPS CC	40 CFR Part 63, Subpart CC - NESHAPS for Petroleum Refineries						
	40 CFR Part 63, Subpart WW – NESHAP for Storage Vessels – Control Level 2						
	RECORDKEEPING ONLY						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2	63.655(i)(1)(iv) and (vi)	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S5, S6, S7, S8, S37, S38, S51, S52, S53, S60, S61, S62, S65
ASPHALT STORAGE TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				<u>determination.</u>			

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
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 INTERNAL 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	Visual 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 8-5-321 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 Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
INTERNAL FLOATING ROOF TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1	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
<u>VOC</u>	<u>BAAQMD 8-5-328.1</u>	<u>N</u>		<u>Abatement device efficiency must be at least 90%, by weight</u>	<u>BAAQMD 8-5-502.2</u>	<u>P/A or P/E</u>	<u>Source test</u>
VOC	SIP 8-5-328.1.2	Y		Concentration of organic compounds of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		None	BAAQMD 8-5-501.2	P/E	Records of tank seal replacement
VOC	BAAQMD 8-5-331.1	N		<u>Abatement device efficiency must be at least 90%, by weight</u> OR Tank cleaning agents IBP > 302 deg F; or TVP < 0.5 psia; or VOC < 50 grams/liter	<u>BAAQMD 8-5-502.2</u> OR 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 61 Subpart FF – Benzene Waste Operations NESHAP 40 CFR, Part 60 Subpart Kb – NSPS for VOL Storage Tanks LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS						
VOC	63.640 (n)(1), 61.351, 60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	63.640(n)(8), 61.351, 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), 61.351, 60.113b	Y		Primary rim-seal standards; no holes or tears	63.640(n)(8), 61.351, 60.113b(a)(1)	Prior to filling tank, each time emptied	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S9, NAPHTHA STORAGE TANK, TK-4607
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
	(a)(1) & (4)				& (a)(4)	& degassed, and at least every 10 yr	
VOC	63.640 (n)(1), 61.351, 60.113b (a)(1) & (4)	Y		Secondary rim-seal standards; no holes or tears	63.640(n)(8), 61.351, 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), 61.351, 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.640(n)(8), 61.351, 60.113b (a)(2)	P/A	visual inspection
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8), 61.351, 60.116b(c)	P/E Upon change of service	Records
VOC		Y		Record of each initial, annual, and 10-year tank inspection	63.640(n)(8), 61.351, 60.115b(a)(2)	For each tank inspection	record
VOC		Y		Report of non-compliant annual inspection for tanks with secondary seals	63.640(n)(8), 61.351, 60.115b(a)(4)	Within 30 days of inspection	report
BAAQMD Permit	PERMIT CONDITIONS						
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18c and I.18j	P/SA	calculations
	Condition 1240, part II.26	Y		Vapor pressure shall not exceed 11 psia	Condition 1240, part II.29	P/M	Records
Through-put	Condition 1240, part II.28	Y		< 24,019,000 gallons in any consecutive 12-month period	Condition 1240, part II.29	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER 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 8-5-301 SIP 8-5-117 8-5-301	Y		True vapor pressure	BAAQMD 8-5-501.1 SIP 8-5-501.1	<u>P/E</u> 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		PV valve set pressure within 10% of working pressure or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	SIP 8-5-303.2	Y		PV valve gas tight (< 500 ppm) except when operating pressure exceeds the valve set pressure	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1 8-5-603	CP/A	Temperature CPMS for Condition 1240, Part II.58b in lieu of Source Test Source Test (Exempt if vented to fuel gas or with source test requirements in permit conditions)
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum device must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards: 95% control of organic vapors	Condition 1240, part II.58b	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1	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
<u>VOC</u>	<u>BAAQMD</u> <u>8-5-328.1</u> (Excluding DS26, S67)	<u>N</u>		<u>Abatement device efficiency must be at least 90%, by weight</u>	<u>BAAQMD</u> <u>8-5-502.2</u>	<u>P/A or P/E</u>	<u>Source test</u>
<u>VOC</u>	<u>BAAQMD 8-5-328.2 (comply with 8-5-328.1 on Ozone Excess Day)</u> (Applies to S26, S67 Only)	<u>N</u>		<u>Residual organic concentration of < 10,000 ppm as methane after degassing</u>	<u>BAAQMD</u> <u>8-5-328.1</u>	<u>P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals</u>	<u>Method 21 portable hydrocarbon detector</u>
<u>VOC</u>	<u>BAAQMD</u> <u>8-5-328.2</u> (comply with 8-5-328.1 on Ozone Excess Day) (Applies to S26, S67 Only)	<u>N</u>		<u>Abatement device efficiency must be at least 90%, by weight</u>	<u>BAAQMD</u> <u>8-5-502.2</u>	<u>P/A or P/E</u>	<u>Source test</u>
VOC	SIP 8-5-328.1.2	Y		Concentration of organic compounds of	SIP 8-5-503	P/E	Portable hydrocarbon

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
UNTREATED WASTEWATER TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				< 10,000 ppm as methane after degassing			detector
VOC	BAAQMD 8-5-331.1	N		<u>Abatement device efficiency must be at least 90%, by weight</u> OR	<u>BAAQMD 8-5-502.2</u> OR	<u>P/E</u> OR	<u>Source test</u> OR
				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.	63.654655(i)(1)(iv)	P/E	Record
BAAQMD Permit	PERMIT CONDITIONS						
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18e and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.32a	Y		98.5% destruction of vapors whenever petroleum and VOC materials are stored	Condition 1240, part II.58b	C	Temperature CPMS
VOC	Condition 1240, part II.93	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.93	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – E
 Applicable Limits and Compliance Monitoring Requirements
 S12 (TK-4606), S26 (TK-4613), S28 (TK-4611B), S67 (TK-4612B)
 UNTREATED WASTEWATER 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 S-26	Condition 1240, part II.97	Y		87,249,600 gallons in any consecutive 12- month period	Condition 1240, part II.101c	P/M	Records
Throughput S-12 and S-28	Condition 1240, part II.98	Y		87,249,600 gallons in any consecutive 12- month period	Condition 1240, part II.101c	P/M	Records
Throughput S-67	Condition 1240, part II.99	Y		87,249,600 gallons in any consecutive 12- month period	Condition 1240, part II.101c	P/M	Records

**Table VII – F
 Applicable Limits and Compliance Monitoring Requirements
 S13, KEROSENE TANK, TK-4608
 S59, GAS OIL TANK, TK-4605
 S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
 NSPS Kb FIXED ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR 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 SIP 8-5-501.1	<u>P/E</u> 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	BAAQMD 8-5-501.4	P/initial	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				0.5 psig			
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		PV valve set pressure within 10% of working pressure or at least 0.5 psig	SIP 8-5-403	P/SA	Visual inspection
VOC	SIP 8-5-303.2	Y		PV valve gas tight (< 500 ppm) except when operating pressure exceeds the valve set pressure	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-5-306.1	N		Approved emission control system; 95% efficiency requirement	BAAQMD 8-5-502.1 8-5-603	CP/A	Temperature CPMS for Condition 1240, Part II.58b in lieu of Source Test Source Test (Exempt if vented to fuel gas or with

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – F
 Applicable Limits and Compliance Monitoring Requirements
 S13, KEROSENE TANK, TK-4608
 S59, GAS OIL TANK, TK-4605
 S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
 NSPS Kb FIXED ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
							source test requirements in permit conditions)
VOC	BAAQMD 8-5-306.2	N		Pressure vacuum device must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403	P/SA	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Approved emission control system gas tight: < 100 ppm (as methane) above background	SIP 8-5-503 8-5-605	None	Method 21 portable hydrocarbon detector
VOC	SIP 8-5-306	Y		Control device standards: 95% control of organic vapors	Condition 1240, part II.58b	C	Temperature 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	BAAQMD 8-5-328.2	N		Abatement device efficiency must be at least 90%, by weight	BAAQMD 8-5-502.2	P/A OR P/E	Source test
VOC	SIP 8-5-328.1.2	Y		Concentration of organic compounds of < 10,000 ppm as	SIP 8-5-503	P/E	Portable hydrocarbon detector

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S13, KEROSENE TANK, TK-4608
S59, GAS OIL TANK, TK-4605
S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
NSPS Kb FIXED ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				methane after degassing			
VOC	BAAQMD 8-5-331.1	N		<u>Abatement device efficiency must be at least 90%, by weight</u> OR	<u>BAAQMD 8-5-502.2</u> OR	<u>P/E</u> OR	<u>Source test</u> OR
				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						
VOC	60.112b(a)(3)(i)	Y		“No detectable emissions,” as determined by 40 CFR, Part 60.485(b), equivalent to < 500 ppm	Condition 1240, part II.32e	P/SA	EPA Method 21
VOC	60.112b(a)(3)(ii)	Y		Control device standards; 95% control of inlet VOC	Condition 1240, part II.58b	C	Temperature CPMS
BAAQMD t	PERMIT CONDITIONS						
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18c and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.31	Y		Vapor pressure shall not exceed 1.5 psia	Condition 1240, part II.31a	P/A	Determ-nation of vapor pressure

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – F
 Applicable Limits and Compliance Monitoring Requirements
 S13, KEROSENE TANK, TK-4608
 S59, GAS OIL TANK, TK-4605
 S63, KERO/LVGO/HVGO/ASPHALT TANK, TK-4631
 NSPS Kb FIXED ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	Condition 1240, part II.32a	Y		98.5% destruction of vapors whenever petroleum and VOC materials are stored	Condition 1240, part II.58b	C	Temperature CPMS
VOC S59	Condition 1240, part II.93	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.93	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
VOC S13, S63	Condition 1240, part II.94	Y		Contain emissions in vapor recovery system whenever the vapor recovery blower is not operating.	Condition 1240, part II.94	P/D	Records
					Condition 1240, part II.95	P/E	Records
Through-put	Condition 1240, part II.33a	Y		< 68,208,000 gallons in any consecutive 12-month period for S13, S59, and S63 total	Condition 1240, part II.34	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S16, TRUCK LOADING RACK, HEAVY VACUUM GAS OIL

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18d and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.90	Y		Vapor pressure < 0.49 psia	None	N	N/A
Through-put limit	Condition 1240, part II.91	Y		25,749,000 gallons/any consecutive 12 months	Condition 1240, part II.91a	P/M	Records

Table– VII - H
Applicable Limits and Compliance Monitoring Requirements
S17, TRUCK LOADING RACKS-ASPHALT

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 8-15-305	Y		None	BAAQMD 8-15-501	P/E	Records
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18d and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.68	Y		98.5% destruction of vapors by weight	Condition 1240, part I.19	C	Temperature CPMS
VOC	Condition 1240, part II.71	Y		Vapor pressure < 0.5 psia, except allowable kerosene	Condition 1240, part II.75	P/M	Records
Through-put limit	Condition 1240, part II.74	Y		283,011,000 gallons/any consecutive 12 months	Condition 1240, part II.75	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table– VII - H
Applicable Limits and Compliance Monitoring Requirements
S17, TRUCK LOADING RACKS-ASPHALT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				for S17, S31, and S54 combined			
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, part I.19	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, I.19	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</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 gr/dscf</u>	<u>Condition 1240, part I.19</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>Condition 1240, I.19</u>	<u>C</u>	<u>Temperature CPMS</u>
Odor		N			Condition 1240, part IV.2	P/E	Asphalt tank truck dome inspection program

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S18, 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
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18b	P/SA	Calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S18, 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
					and I.18j		
Through-put limit	Condition 1240, part I.1	Y		5,292,000 barrels/any consecutive 12 months	Condition 1240, part I.4	P/M	Records
VOC	Condition 1240, part I.2	Y		18,000 barrels/any calendar day	Condition 1240, part I.4	P/D	Records

Table– VII – J
Applicable Limits and Compliance Monitoring Requirements
S19, VACUUM HEATER

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 1240, part I.8	Y		25 ppmv (dry, 3% O ₂ , one hour average)	Condition 1240, part I.16a	P/SA	Source test
NOx	Condition 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18h and I.18j	P/SA	Calculations
O ₂		Y		No limit	Condition 1240, I.10	C	Oxygen analyzer
CO	Condition 1240, part I.5b	Y		50 ppmv (dry, 3% O ₂) over any one-hour period	Condition 1240, part I.16a	P/SA	Source test
CO	Condition 1240, part I.5c	Y		1.47 lb/hr over any one-hour period	Condition 1240, part I.16a	P/SA	Source test
SO ₂	Condition 1240, part	Y		Emissions of SO ₂ < 28.049 tons per year	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table– VII – J
Applicable Limits and Compliance Monitoring Requirements
S19, VACUUM HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	I.14						
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
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FP-TSP</u>	<u>BAAQMD 6-1-310.13</u>	N		<u>0.15 grain/dscf @ 6% oxygen</u>	None	N	N/A
<u>FP-TSP</u>	<u>SIP 6-310.3</u>	Y		<u>0.15 grain/dscf @ 6% oxygen</u>	None	N	N/A
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18f and I.18j	P/SA	Calculations
Through-put	Condition 1240, part I.5	Y		Maximum heat input to all asphalt plant combustion units < 93.6 MMbtu/hr	Condition 1240, part I.5	C	Fuel flow CPMS
Through-put	Condition 1240, part I.5a	Y		Maximum heat input to S19 < 40 MMbtu/hr	Condition 1240, part I.5	C	Fuel flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – K
 Applicable Limits and Compliance Monitoring Requirements
 S20, STEAM BOILER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301 9-10-308 and Condition 26250 Part 9	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/MMBTU, operating day average (Compliance with the ANCP: 4,484.3 lb NOx/day pursuant to BAAQMD-Regulation 2-9-303 and condition 19329 is considered compliance with this limit)	BAAQMD 9-10-502.1.2.1 and Condition 26250 Part 2 21233, part 7.a.1	P/A	Source test
NOx	BAAQMD 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/MMBTU, operating day average (compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and condition 19329 is considered compliance with this limit)	BAAQMD 9-10-502 and Condition 21233	P/D	Emission calculations using emission factors and fuel meter
NOx	BAAQMD 9-10-303	Y		Refinery-wide emissions (excluding CO boilers): 0.20 lb NOx/MMbtu, operating day average	BAAQMD 9-10-502.1.2.1, and Condition 26250 Part 2 21233, part 7.a.1	P/A	Source test
NOx	Condition 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18h	P/SA	Calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S20, STEAM BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					and I.18j		
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂) on an operating day average	BAAQMD 9-10-502& Condition <u>26250 Part 6 21233, part 7.a.1</u>	P/A	Source test
SO ₂	Condition 1240, part I.14	Y		Emissions of SO ₂ < 28.049 tons per year	None	N	N/A
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour (gaseous fuel)	None	N	N/A
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour (gaseous fuel)	None	N	N/A
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
<u>FPTSP</u>	<u>BAAQMD 6-1-310.13</u>	<u>N</u>		<u>0.15 grain/dscf @ 6% oxygen</u>	None	N	N/A
<u>FPTSP</u>	<u>SIP 6-310.3</u>	<u>Y</u>		<u>0.15 grain/dscf @ 6% oxygen</u>	None	N	N/A
VOC	BAAQMD Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18f and I.18j	P/SA	Calculations
Through-put	Condition 1240, part I.5	Y		Maximum heat input to all asphalt plant combustion units < 93.6 MMbtu/hr	Condition 1240, part I.5	C	Fuel flow CPMS
Through-put	Condition 262501932 <u>9</u> , part 1	Y		Maximum heat input to S20 < 15 MMbtu/hr	BAAQMD 9-10-502.2	C	Fuel flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – L
 Applicable Limits and Compliance Monitoring Requirements
 S21, STEAM BOILER**

ype of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301 <u>9-10-308</u> and <u>Condition 26250 Part 9</u>	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NOx/MMBTU, operating day average (Compliance with the ANCP: 4,484.3 lb NOx/day pursuant to BAAQMD Regulation 2-9-303 and condition 19329 is considered compliance with this limit)	BAAQMD 9-10-502.1.2.1 and Condition <u>26250 Part 2 21233, part 7.a.1</u>	P/A	Source test
NOx	BAAQMD 9-10-301	N		Refinery wide emissions (excluding CO Boilers): 0.033 lb NOx/MMBTU, operating day average (compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and condition 19329 is considered compliance with this limit)	BAAQMD 9-10-502 and Condition 21233	P/D	Emission calculations using emission factors and fuel meter
NOx	BAAQMD 9-10-303	Y		Refinery-wide emissions (excluding CO boilers): 0.20 lb NOx/MMbtu, operating day average	BAAQMD 9-10-502.1.2.1 and Condition <u>26250 Part 2</u>	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
S21, STEAM BOILER

ype of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					21233, part 7-a.1		
NOx	Condition 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18h and I.18j	P/SA	Calculations
CO	BAAQMD 9-10-305	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD 9-10-502 & Condition 26250 Part 6 21233, part 7-a.1	P/A	Source test
SO ₂	Condition 1240, part I.14	Y		Emissions of SO ₂ < 28.049 tons per year	None	N	N/A
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 (gaseous fuel)	None	N	N/A
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP TSP	BAAQMD 6-1-310.13	N		0.15 grain/dscf @ 6% oxygen	None	N	N/A
FP TSP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% oxygen	None	N	N/A
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18f and I.18j	P/SA	Calculations
Through-put	Condition 1240, part	Y		Maximum heat input to all asphalt plant combustion	Condition 1240, part I.5	C	Fuel flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
S21, STEAM BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	I.5			units < 93.6 MMbtu/hr			
Through-put	Condition 262504932 9, part 1	Y		Maximum heat input to S21 < 15 MMbtu/hr	BAAQMD 9-10-502.2	C	Fuel flow CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table– VII – M
Applicable Limits and Compliance Monitoring Requirements
S24, HOT OIL HEATER (H-4603)

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 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18i and I.18j	P/SA	Calculations
SO2	Condition 1240, part I.14	Y		Emissions of SO2 < 28.049 tons per year	None	N	N/A
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour (gaseous fuel)	Condition 1240, II.58b	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour (gaseous fuel)	Condition 1240, II.58b	C	Temperature CPMS /N/A
Opacity	BAAQMD 6-1-302	N		20% opacity for no more than 3 minutes in any hour (gaseous fuel)	Condition 1240, II.58b	C	Temperature CPMS
Opacity	40 CFR, Part 60.472(c)	N		0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning	40 CFR, Part 60.472(c) 60.474(c)(5) Condition 1240, II.58b	C	Temperature CPMS
FP-TSP	BAAQMD 6-1-310.13	N		0.15 grain/dscf @ 6% oxygen	Condition 1240, II.58b	C	Temperature CPMS
FP-TSP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% oxygen	None	N	N/A
Opacity	40 CFR, Part 60.472(c)	Y		0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning	40 CFR, Part 60.472(c) 60.474(c)(5) Condition 1240, II.58b	C	Temperature CPMS
VOC	BAAQMD 8-5-306	N		95% control of organic vapors (from S12, S13, S26,	BAAQMD 8-5-502.1	P/A	Source Test (Exempt if

VII. Applicable Limits and Compliance Monitoring Requirements

Table– VII – M
Applicable Limits and Compliance Monitoring Requirements
S24, HOT OIL HEATER (H-4603)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				S28, S59, S63, S67)	8-5-603		vented to fuel gas or with source test requirements in permit conditions)
VOC	SIP 8-5-306	Y		95% control of organic vapors (from S12, S13, S26, S28, S59, S63, S67)	Condition 1240, part II.58b	C	Temperature CPMS
VOC	BAAQMD 8-6-301	Y		21 g/cubic meter (0.17 lb/1000 gallons)	Condition 1240, part II.58b	C	Temperature CPMS
VOC	40 CFR, Part 60.112b(a)(3)(ii)	Y		95% control of organic vapors (from S13, S59, S63)	Condition 1240, part II.58b	C	Temperature CPMS
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18g and I.18j	P/SA	Calculations
VOC	Condition 1240, parts II.32a	Y		98.5% destruction of vapors by weight whenever petroleum and VOC materials are stored or transferred	Condition 1240, part II.58b	C	Temperature CPMS
Through-put	Condition 1240, part I.5	Y		Maximum heat input to all asphalt plant combustion units < 93.6 MMbtu/hr	Condition 1240, part I.5	P/D	PG&E fuel meter
Temperature limit	40 CFR, Part 60.113b(c)(1)(ii) &	Y		1115 ° F Operating Temperature when in abatement service	40 CFR, Part 60.112b(c)(c)(2)	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table– VII – M
Applicable Limits and Compliance Monitoring Requirements
S24, HOT OIL HEATER (H-4603)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	(c)(2)						
Temperature limit	40 CFR, Part 60.473(c)	Y		1115 ° F Operating Temperature when in abatement service	40 CFR, Part 60.473(c)	C	Temperature CPMS
Temperature limit	Condition 1240, part II.58b	Y		1115 ° F Operating Temperature when in abatement service	Condition 1240, part II.58b	C	Temperature CPMS

Table VII – N
Applicable Limits and Compliance Monitoring Requirements
S31, RAIL CAR GAS OIL AND ASPHALT LOADING RACK

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 8-6-301	Y		0.17 pounds per 1,000 gallons loaded	Condition 1240, part II.58b	C	Temperature CPMS
VOC	BAAQMD 8-6-306	Y		Equipment shall be vapor-tight: i.e., leaks shall not exceed 100% of the LEL at 1 cm	Condition 1240, part II.72a	P/Q	Method 21
VOC	BAAQMD 8-6-306	Y		Equipment shall be leak-free: i.e., leak rate shall not exceed 3 drops/min, excluding losses which occur upon disconnecting transfer fittings	Condition 1240, part II.72b	P/Q	Inspection
VOC	BAAQMD 8-6-306	Y		Leaks during transfer shall not exceed 10 milliliters (ml) during a	Condition 1240, part II.72b	P/Q	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – N
Applicable Limits and Compliance Monitoring Requirements
S31, RAIL CAR GAS OIL AND ASPHALT LOADING RACK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				bottom loading operation or no more than two milliliters (ml) during a top loading operation, averaged over three disconnects.			
VOC	BAAQMD 8-15-305	Y		None	BAAQMD 8-15-501	P/E	Records
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18d and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.32a	Y		98.5% control efficiency when S31 whenever petroleum and VOC materials are transferred	Condition 1240, part II.58b	C	Temperature CPMS
VOC	Condition 1240, part II.94	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.94	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
VOC	Condition 1240, part II.72	Y		Vapor pressure < 1.5 psia	Condition 1240, part II.75	P/M	records
Vapor pressure	Condition 1240, part II.73	Y		Vapor pressure of asphalt or asphalt containing materials < 0.5 psia	Condition 1240, part II.75	P/M	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, II.58b	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – N
Applicable Limits and Compliance Monitoring Requirements
S31, RAIL CAR GAS OIL AND ASPHALT LOADING RACK

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 in any our	Condition 1240, II.58b	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>Condition 1240, II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15 gr/dsef</u>	<u>Condition 1240, II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 gr/dsef</u>	<u>Condition 1240, II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
Through-put limit	Condition 1240, part II.74	Y		283,011,000 gallons/any consecutive 12 months for S17, S31, and S54 combined	Condition 1240, part II.75	P/M	Records

Table VII – O
Applicable Limits and Compliance Monitoring Requirements
S34, TANK HEATER

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 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18i and I.18j	P/SA	Calculations
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18g and I.18j	P/SA	Calculations
SO2	Condition 1240, part I.14	Y		Emissions of SO2 < 28.049 tons per year	None	N	N/A
Opacity	BAAQMD	N		Ringelmann No. 1 for no	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – O
Applicable Limits and Compliance Monitoring Requirements
S34, TANK HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	6-1-301			more than 3 minutes in any hour (gaseous fuel)			
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour (gaseous fuel)	None	N	N/A
<u>Opacity</u>	<u>BAAQMD</u> <u>6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour (gaseous fuel)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>
FP TSP	BAAQMD 6-1-310.13	N		0.15 grain/dscf @ 6% oxygen	None	N	N/A
FP TSP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% oxygen	None	N	N/A
Through-put	Condition 1240, part 1.5	Y		Maximum heat input to all asphalt plant combustion units < 93.6 MMbtu/hr	Condition 1240, part 1.5	P/D	PG&E fuel meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
S54, ASPHALT LOADING RACK

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 8-15-305			None	BAAQMD 8-15-501	P/E	Records
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18d and I.18j	P/SA	calculations
VOC	Condition 1240, parts II.32a	Y		98.5% destruction of vapors by weight whenever petroleum and VOC materials are stored or transferred	Condition 1240, part II.58b	C	Temperature CPMS
VOC	Condition 1240, part II.71	Y		Vapor pressure < 0.5 psia except allowable kerosene	Condition 1240, part II.75	P/M	records
VOC	Condition 1240, part II.94	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.94	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, part II.58b	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, II.58b	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour (gaseous fuel)</u>	<u>None</u>	<u>N</u>	<u>N/A</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
S54, ASPHALT LOADING RACK

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 gr/dscf	Condition 1240, part II.58b	€	Temperature-CPMS
FP	SIP 6-310	Y		0.15 gr/dscf	Condition 1240, part II.58b	€	Temperature-CPMS
Through-put limit	Condition 1240, part II.74	Y		283,011,000 gallons/any consecutive 12 months for S17, S31, and S54 combined	Condition 1240, part II.75	P/M	Records
Odor				None	Condition 1240, part IV.2	P/E	Asphalt tank truck dome inspection program

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

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 6-1-303.24	N		Ringelmann No. 2 for no more than 3 minutes in any hour	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
FP TSP	BAAQMD 6-1-310.1	N		0.15 gr/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP TSP	SIP 6-310	Y		0.15 gr/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		up to 50 hours for reliability testing	BAAQMD 9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330	N		unlimited hours in case of emergency	BAAQMD 9-8-530	P/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(d) (1)	C	Totalizing meter for hours of operation
					CCR, Title 17, Section 93115.10(f)	M	Records
Hours of Operation	Condition 22851, Part 1	Y		<= 34 hours/year for reliability-related activities	Condition 22851, Part 3	C	Totalizing meter for hours of operation and records
					Condition 22851, Part 4	M	Records
NOx	Condition 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18i and I.18j	P/SA	Calculations
SO2	BAAQMD 9-1-304	Y		Fuel Sulfur Limit 0.5% by weight	Condition 18796, Part 1	P/E	fuel certification
SO2	Condition 1240, part I.14	Y		Emissions of SO2 < 28.049 tons per year	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements
S68-EMERGENCY DIESEL-POWERED FIREWATER PUMP

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	Condition 18796, Part 1	Y		Fuel Sulfur Limit 0.05% by weight	Condition 18796, Part 1	P/E	fuel certification
NHMC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18g and I.18j	P/SA	Calculations

Table VII – R
Applicable Limits and Compliance Monitoring Requirements
S69- ASPHALT ADDITIVE LOADING 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 in any hour	Condition 20278, parts 6d and 7	P/A	visible emissions inspection
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, II.58b	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>Condition 1240, II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
PMTSP	BAAQMD 6-1-310.1	N		0.15 gr/dscf	None	N	N/A
PMTSP	SIP 6-310	Y		0.15 gr/dscf	None	N	N/A
PMTSP	BAAQMD 6-1-311.1	N		4.10P^{0.67} lb/hr, where P is process weight, ton/hr <u>Table 6-1-311.1</u>	None	N	N/A
PMTSP	SIP 6-311	Y		4.10P ^{0.67} lb/hr, where P is process weight, ton/hr	None	N	N/A
Through-put	Condition 20278, part	Y		20,000 tons in any 12 months	Condition 20278, part 6	P/D	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – R Applicable Limits and Compliance Monitoring Requirements S69- ASPHALT ADDITIVE LOADING BIN							
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	2						

Table VII – S
 Applicable Limits and Compliance Monitoring Requirements
 S70- ASPHALT ADDITIVE MIXING 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 in any hour	Condition 1240, part II.58b	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, II.58b	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour</u>	<u>Condition 1240, II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>Opacity</u>	40 CFR, Part 60.472(c)	Y		0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning	40 CFR, Part 60.473(c) 60.474(c)(5) Condition 1240, part II.58b	C	Temperature CPMS
<u>FP</u>	<u>BAAQMD 6-1-310</u>	<u>N</u>		<u>0.15-gr/dscf</u>	<u>Condition 1240, part II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>FP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15-gr/dscf</u>	<u>Condition 1240, part II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
VOC	BAAQMD 8-15-305			None	BAAQMD 8-15-501	P/E	Records
VOC	BAAQMD 8-15-305	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18c and I.18j	P/SA	Calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – S
Applicable Limits and Compliance Monitoring Requirements
S70- ASPHALT ADDITIVE MIXING TANK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-15-305	Y		Vapor pressure may not exceed 0.5 psia	Condition 1240, part II.58	P/M	Records
VOC	Condition 1240, part II.32a	Y		98.5% control efficiency when S31 whenever petroleum and VOC materials are transferred	Condition 1240, part II.58b	C	Temperature CPMS
VOC	Condition 1240, part II.94	Y		Contain emissions in closed vent system whenever the vapor recovery blower is not operating, as long as no P/V valve is lifting.	Condition 1240, part II.94	P/E (every 8 hours)	Pressure monitoring whenever vapor recovery blower is not operating
					Condition 1240, part II.95	P/E	Records
Through-put	Condition 20278, part 1	Y		400,000 tons in any 12 months	Condition 20278, part 6	P/D	records

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-301	Y		General equipment leak < 100 ppm or minimize in 24 hours, repair in 7 days	None	N	N/A
VOC	BAAQMD Regulation 8-18-300	Y		Valves, Pumps, Compressors, Connectors, PRDs, and General	BAAQMD 8-18-401.5	P/E (24 hrs after repair/mini-	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				Equipment		mization)	
VOC	BAAQMD 8-18-302.1 8-18-302.2	N		Valve leak < 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
VOC	BAAQMD 8-18-302.1 8-18-302.2	N		Inaccessible valve leak < 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- 306.1-3 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- 120302.3 8-18-306.4	N		Mass emission rate ≤ 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- 120302.3 8-18-306.4	N		Mass emission rate ≤ 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 < 500 ppm or minimize in 24 hours, repair in 7 days	BAAQMD 8-18-401.2	P/Q	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 8-18-401.6	P/A	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 (for connectors opened during turnaround)	BAAQMD 8-18-401.1	P/E (within 90 days of turnaround)	Method 21 Inspection
VOC	BAAQMD 8-18-305	Y		Pressure relief valve leak < 500 ppm or minimize in 24	BAAQMD 8-18-401.2	P/Q	Method 21 Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type										
				hours, repair in 15 days	and 8-18-401.7												
VOC	BAAQMD 8-18-305	N		Inaccessible pressure relief valve 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	N		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 8-18-305	N		Pressure Relief Device with reportable releases ≤ 500 ppm	BAAQMD 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection w/Report										
VOC	BAAQMD 8-18-306.4	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	Records										
VOC	BAAQMD 8-18-306.2 8-18-306.3 8-18-306.4	N		Maximum percentage awaiting repair <table border="1"> <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>0.1530</td> </tr> <tr> <td>Valves with major leaks per 8-18-306.4</td> <td>0.025</td> </tr> <tr> <td>Pressure Reliefs</td> <td>1.005</td> </tr> <tr> <td>Pumps and Compressors</td> <td>1.005</td> </tr> </tbody> </table>	Components	%	Valves (including with major leaks) and connectors per 8-18-306.3	0.1530	Valves with major leaks per 8-18-306.4	0.025	Pressure Reliefs	1.005	Pumps and Compressors	1.005	BAAQMD 8-18-502.4	P/Q	Records
Components	%																
Valves (including with major leaks) and connectors per 8-18-306.3	0.1530																
Valves with major leaks per 8-18-306.4	0.025																
Pressure Reliefs	1.005																
Pumps and Compressors	1.005																
VOC	BAAQMD 8-18-307	Y		Equipment liquid leaks minimize in 24 hours, repair in 7 days	None	P/E	Records										

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-18-307	Y		Pumps and Compressors Evidence of Leak	BAAQMD 8-18-403	P/D	Visual Inspection
<u>VOC</u>	<u>BAAQMD 8-18-309.3</u>	<u>N</u>		<u><= 100 ppm at open end of second valve when double block and bleed system is not in use</u>	<u>BAAQMD 8-18-401.2</u>	<u>P/Q</u>	<u>Method 21 Inspection</u>
<u>VOC</u>	<u>BAAQMD 8-18-310</u>	<u>N</u>		<u>Valve, compressor, or PRD leaking more than 3 consecutive quarters, inspect monthly instead</u>	<u>BAAQMD 8-18-407</u>	<u>P/M</u>	<u>Method 21 Inspection</u>
<u>VOC</u>	<u>BAAQMD 8-18-311</u>	<u>N</u>		<u>Mass emission rate <= 5 lbs/day for any equipment except during repair periods</u>	<u>BAAQMD 8-18-604</u>		<u>Mass Emission Sampling</u>
VOC	SIP 8-18-302	Y		Valve leak < 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 < 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 < 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 < 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.6	P/A	Method 21 Inspection
VOC	SIP 8-18-304.2	Y		Connection leak < 100 ppm or minimize in 24 hours, repair in 7 days (for connectors opened during turnaround)	SIP 8-18-401.1	P/E (within 90 days of turnaround)	Method 21 Inspection
<u>VOC</u>	<u>SIP 8-18-305</u>	<u>Y</u>		<u>Inaccessible pressure relief valve leak < 500 ppm or</u>	<u>SIP 8-18-401.3</u>	<u>P/A</u>	<u>Method 21 Inspection</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				<u>minimize in 24 hours,</u> <u>repair in 15 days</u>			
<u>VOC</u>	<u>SIP</u> <u>8-18-305</u>	<u>Y</u>		<u>Pressure relief valve leak</u> <u>< 500 ppm or</u> <u>minimize in 24 hours,</u> <u>repair in 15 days</u>	<u>SIP</u> <u>8-18-401.8</u>	<u>P/E</u> <u>(5 working</u> <u>days after</u> <u>release)</u>	<u>Method 21</u> <u>Inspection</u>
<u>VOC</u>	<u>SIP</u> <u>8-18-305</u>	<u>Y</u>		<u>Pressure Relief Device with</u> <u>reportable releases</u> <u>< 500 ppm</u>	<u>SIP</u> <u>8-18-401.8</u>	<u>P/E</u> <u>(5 working</u> <u>days after</u> <u>release)</u>	<u>Method 21</u> <u>Inspection</u> <u>w/Report</u>
VOC	SIP 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	SIP 8-18-502.4	P/Q	Report
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
<u>VOC</u>	<u>40 CFR, Part</u> <u>60.482-2</u> <u>(b)(1)</u>	<u>Y</u>		<u>LL Pump leak < 10,000 ppm</u>	<u>40 CFR, Part</u> <u>60.482-2</u> <u>(a)(1)</u>	<u>P/M</u>	<u>Method 21</u> <u>Inspection</u>
<u>VOC</u>	<u>40 CFR, Part</u> <u>60.482-2</u> <u>(b)(2)</u>	<u>Y</u>		<u>Pump leak Indicated by</u> <u>dripping liquid</u>	<u>40 CFR, Part</u> <u>60.482-2</u> <u>(a)(2)</u>	<u>P/W</u>	<u>Visual</u> <u>Inspection</u>
<u>VOC</u>	<u>40 CFR, Part</u> <u>60.482-2(e)</u>	<u>Y</u>		<u>Pump designated for “No</u> <u>detectable emissions”</u> <u>pursuant to 40 CFR, Part</u> <u>60.486(e),</u> <u><500 ppm</u>	<u>40 CFR, Part</u> <u>60.482-</u> <u>2(e)(3)</u>	<u>P/A</u>	<u>Method 21</u> <u>Inspection</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	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 40 CFR, Part 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 abatement < 500 ppm	None	N	N/A
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)	Y		Valve leak < 10,000 ppm	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)(i)	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 60.482-8(a)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection	40 CFR, Part 60.482-8(a)	P/E	Visible, Audible, or olfactory Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	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/(5 days after leak noted by visual, audible, or olfactory inspection)	Visual, audible, olfactory inspection; Measure for leaks
VOC	40 CFR, Part 60.482-9 (d)	Y		Pumps under "Delay of repair" repaired within 6 months	None	N	N/A
VOC	40 CFR, Part 60.482-10 (g)	Y		Closed-vent leak < 500 ppm	40 CFR, Part 60.482-10 (f)(1)(i)	Initial Inspection Only	Method 21 inspection
VOC	40 CFR, Part 60.482-10 (g)	Y		Closed-vent system—no visible, audible, olfactory evidence of leak	40 CFR, Part 60.482-10 (f)(1)(ii)	P/A	Visual Inspection
VOC	40 CFR, Part 60.482-10 (g)	Y		Repair closed-vent systems leak (> 500 ppm for initial inspection only) or visible, audible, or olfactory leak indication. 1 st repair attempt 5 day, repaired 15 days, or turnaround list	40 CFR, Part 60.482-10 (f)	P/When detectable emissions are measured or leak indication is observed	Repairs
VOC		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	40 CFR, Part 60.483-2(b)(3) (See footnote b)	P/A (if criteria are met)	Method 21 inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – T1
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		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.	40 CFR, Part 60.483-2(b)(2) (footnote b)	SA (if criteria are met)	Method 21 Inspection
VOC	40 CFR, Part 61.345 (a)(1)(i)	Y		Container fittings leak ≤ to 500 ppm	40 CFR, Part 61.345 (a)(1)(i)	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
VOC	40 CFR, Part 61.349(g)	Y		First effort to repair visible defects within 5 days after detection; repair complete within 15 days except as allowing by 40 CFR, Part 61.350	40 CFR, Part 61.349(f)	P/Q	Visual inspection
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18b and I.18j	P/M	Calculations

Footnotes to Table VII-T1A above:

^a Valves are inspected pursuant to BAAQMD-approved Alternative Inspection Schedule that satisfies the requirements of 8-18-404. Valves that have not been found to be leaking for the five prior quarters are placed on the annual inspection schedule.

^b The 40 CFR, Part 60.483-2 (Subpart VV) alternative screening schedule for valves is analogous to the Valero

VII. Applicable Limits and Compliance Monitoring Requirements

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, 63.648(a)(2) allows 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 Unit, which are not subject to MACT. Finally, any valve subject to Subpart VV must *individually* comply with BAAQMD Rule 8-18-404 (5 quarters with no leaks at 100 ppm) in order to be allowed to be screened less frequently than quarterly. As a practical matter, Subpart VV is effectively less stringent than the Valero Alternative Inspection Schedule.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
A17 – ASPHALT TRUCK LOADING RACK INCINERATOR (H-46100)

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 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18i and I.18j	P/SA	Calculations
SO2	Condition 1240, part I.14	Y		Emissions of SO2 < 28.049 tons per year	None	N	N/A
VOC	BAAQMD 8-6-301	Y		21 g/cubic meter (0.17 lb/1000 gallons)	Condition 1240, part I.19	C	Temperature CPMS
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18g and I.18j	P/SA	Calculations
VOC	Condition 1240, part II.68	Y		98.5% destruction of vapors by weight (from S17)	Condition 1240, part I.19	C	Temperature CPMS
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, part I.19	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, part I.19	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour (gaseous fuel)</u>	<u>Condition 1240, part I.19</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>FPTSP</u>	<u>BAAQMD 6-1-310.1</u>	<u>N</u>		<u>0.15 grain/dscf</u>	<u>Condition 1240, part I.19</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>FPTSP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 grain/dscf</u>	<u>Condition 1240, part I.19</u>	<u>C</u>	<u>Temperature CPMS</u>
Through-put	Condition 1240, part I.5	Y		Maximum heat input to all asphalt plant combustion units < 93.6 MMbtu/hr	Condition 1240, part I.5	P/D	PG&E fuel meter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
A17 – ASPHALT TRUCK LOADING RACK INCINERATOR (H-46100)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature	Condition 1240, part I.19			Minimum Operating Temperature 1570F	Condition 1240, part I.19	C	Temperature CPMS

Table VII – V
Applicable Limits and Compliance Monitoring Requirements
A31, THERMAL OXIDIZER (H-4607)

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 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18i and I.18j	P/SA	Calculations
SO2	Condition 1240, part I.14	Y		Emissions of SO2 < 28.049 tons per year	None	N	N/A
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, part II.58b	C	Temperature CPMS
Opacity	SIP 6-301	Y		Ringelmann No. 1 for no more than 3 minutes in any hour	Condition 1240, II.58b	C	Temperature CPMS
<u>Opacity</u>	<u>BAAQMD 6-1-302</u>	<u>N</u>		<u>20% opacity for no more than 3 minutes in any hour (gaseous fuel)</u>	<u>Condition 1240, II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>Opacity</u>	<u>40 CFR, Part 60.472(e)</u>	<u>Y</u>		<u>0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning</u>	<u>40 CFR, Part 60.473(e) 60.474(c)(4) Condition 1240, part II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>#PTSP</u>	<u>BAAQMD 6-1-310.1</u>	<u>N</u>		<u>0.15 gr/dscf</u>	<u>Condition 1240, part II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
<u>#PTSP</u>	<u>SIP 6-310</u>	<u>Y</u>		<u>0.15 gr/dscf</u>	<u>Condition 1240, part II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – V
Applicable Limits and Compliance Monitoring Requirements
A31, THERMAL OXIDIZER (H-4607)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<u>Opacity</u>	<u>40 CFR, Part 60.472(c)</u>	<u>Y</u>		<u>0 percent opacity except for one consecutive 15-min period in any 24-hr period for cleaning</u>	<u>40 CFR, Part 60.473(c) 60.474(c)(4) Condition 1240, part II.58b</u>	<u>C</u>	<u>Temperature CPMS</u>
VOC	BAAQMD 8-5-306	N		95% control of organic vapors (from S12, S13, S26, S28, S59, S63, S67)	BAAQMD 8-5-502.1 8-5-603	P/A	Source Test (Exempt if vented to fuel gas or with source test requirements in permit conditions)
VOC	SIP 8-5-306	Y		95% control of organic vapors (from S12, S13, S26, S28, S59, S63, S67)	Condition 1240, part II.58b	C	Temperature CPMS
VOC	BAAQMD 8-6-301	Y		21 g/cubic meter (0.17 lb/1000 gallons)	Condition 1240, part II.58b	C	Temperature CPMS
VOC	40 CFR, Part 60.112b(a) (3)(ii)	Y		95% control of organic vapors (from S13, S59, S63)	Condition 1240, part II.58b	C	Temperature CPMS
VOC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18g and I.18j	P/SA	Calculations
VOC	Condition 1240, parts II.32a	Y		98.5% destruction of organic vapors by weight whenever petroleum and VOC materials are stored or transferred	Condition 1240, part II.58b	C	Temperature CPMS
Through-put	Condition 1240, part I.5	Y		Maximum heat input to all asphalt plant combustion units < 93.6 MMBtu/hr	Condition 1240, part I.5	P/D	PG&E fuel meter
Temperature	40 CFR, Part 60.112b(c)	Y		1400° F Operating Temperature	40 CFR, Part 60.112b(c)	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – V
Applicable Limits and Compliance Monitoring Requirements
A31, THERMAL OXIDIZER (H-4607)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
limit	(1)(ii) & (c)(2)				(c)(2)		
Temperature limit	40 CFR, Part 60.473(c)	Y		1400° F Operating Temperature	40 CFR, Part 60.473(c)	C	Temperature CPMS
Temperature limit	Condition 1240, part II.58b	Y		1400° F Operating Temperature	Condition 1240, part II.58b	C	Temperature CPMS

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
Applicable Limits and Compliance Monitoring Requirements
S71-EMERGENCY DIESEL-POWERED AIR COMPRESSOR

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 6-1-303.24	N		Ringelmann No. 2 for no more than 3 minutes in any hour	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
FP TSP	BAAQMD 6-1-310.1	N		0.15 gr/dscf	None	N	N/A
FP TSP	SIP 6-310	Y		0.15 gr/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		≤ 50 hours for reliability testing	BAAQMD 9-8-530	C	Totalizing meter for hours of operation
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	BAAQMD 9-8-330	N		unlimited hours in case of emergency	BAAQMD 9-8-530	P/M	records
Hours of Operation	CCR, Title 17, Section 93115.6(b)(3) (A)(2)(b)	N		≤ 50 hours/year for reliability-related activities	CCR, Title 17, Section 93115.10(d) (1)	C	Totalizing meter for hours of operation
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	Condition 22928 Part 1	Y		up to 50 hours for reliability testing	Condition 22928 Part 2	C	Totalizing meter for hours of operation
					Condition 22928 Part 3	P/M	records
NOx	Condition 1240, part I.14	Y		Emissions of NOx < 40.047 tons per year	Condition 1240, parts I.18a, I.18i and	P/SA	Calculations

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
Applicable Limits and Compliance Monitoring Requirements
S71-EMERGENCY DIESEL-POWERED AIR COMPRESSOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					I.18j		
SO2	BAAQMD 9-1-304	Y		Fuel Sulfur Limit 0.5% by weight	Condition 18796, Part 1	P/E	fuel certification
SO2	Condition 1240, part I.14	Y		Emissions of SO2 < 28.049 tons per year	None	N	N/A
SO2	Condition 18796, Part 1	Y		Fuel Sulfur Limit 0.05% by weight	Condition 18796, Part 1	P/E	fuel certification
NHMC	Condition 1240, part I.14	Y		Emissions of NMHC < 42.705 tons per year	Condition 1240, parts I.18a, I.18g and I.18j	P/SA	Calculations

Table VII – Z
Applicable Limits and Compliance Monitoring Requirements
Fenceline Monitoring

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP (Benzene)	63.658(f)(3)	Y		Action level of 9 µg/m3 benzene on an annual average basis (note that this is not a limit for an individual monitor)	63.658	Continuous 14-day sampling periods to start; sampling frequency may be reduced over time depending on results	Passive monitors

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Y
Applicable Limits and Compliance Monitoring Requirements
Miscellaneous Process Vents: Maintenance Vents

<u>Type of Limit</u>	<u>Citation of Limit</u>	<u>FE Y/N</u>	<u>Future Effective Date</u>	<u>Limit</u>	<u>Monitoring Requirement Citation</u>	<u>Monitoring Frequency (P/C/N)</u>	<u>Monitoring Type</u>
VOC/HAP	63.643(c)(1)(i), (ii), or (iii)	Y	8/1/2017	LEL < 10%; Pressure ≤ 5 psig and active purging may begin when LEL < 10%; or equipment served by maintenance vent contains < 72 lbs VOC	63.643(c)(2) or (3)	P/E	Process instrumentation, portable measurement device, or N/A

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 1-522	Continuous Emission Monitoring	Manual of Procedures, Volume V
BAAQMD 6-1-301 SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-303.1 SIP 6-303.1	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-310 SIP 6-310	<u>TSP Concentration Limits</u> /Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or EPA Reference Method 5 (40 CFR, Part 60, Appendix A), Determination of Particulate Emissions from Stationary Sources
BAAQMD 6-1-311 SIP 6-311	<u>TSP Weight Limits</u> /General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or EPA Reference Method 5 (40 CFR, Part 60, Appendix A), Determination of Particulate Emissions from Stationary Sources
BAAQMD 8-5-117 8-5-601 8-5-602 8-5-604	Exemption, Low Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks, if organic compound is not listed in Table I or c
BAAQMD 8-5-301 8-5-601 8-5-602 8-5-604	Storage Tanks Control Requirements – based on true vapor pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks, if organic compound is not listed in Table I or Manual of Procedures, Volume III, Lab Method 13 for Reid Vapor Pressure
BAAQMD 8-5-303.2	Pressure vacuum valve	EPA Reference Method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-5-206 8-5-403.1 8-5-605	gas-tight determination (<500 ppm as methane)	
BAAQMD 8-5-303.2 8-5-502.1 8-5-603	Pressure vacuum valve vented to vapor recovery or disposal system (95% abatement requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD 8-5-304.6.1 8-5-206 8-5-412 8-5-605	External Floating Roof Leaking Pontoons gas-tight determination (<100 ppm as methane)	EPA Reference Method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD 8-5-306.1 8-5-502 8-5-502.1 8-5-603	Requirements for Approved Emission Control Systems (95% control requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling Baseline emissions: API Bulletin 2518
BAAQMD 8-5-307.3 8-5-403.2 8-5-605	Pressure relief device gas tight determination (< 500 ppm as methane)	EPA Reference Method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD 8-5-307.3 8-5-502.1 8-5-603	Pressure relief device vented to vapor recovery or disposal system (95% abatement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
	requirement)	
BAAQMD 8-5-328.1 8-5-502.2 8-5-603	VOC emissions for tank degassing (90% abatement requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD 8-5-328.1 8-5-605	VOC emissions for tank degassing (organic concentration < 10,000 ppm as methane after degassing Measurements less than 10,000 ppm as methane are required for at least four consecutive measurements performed at intervals no shorter than 15 minutes each.)	EPA Reference Method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks Place probe at least 12 inches above the bottom of the tank and above the surface of any sludge material on the bottom of the tank and at least 12 inches inside the tank measured from the inner surface of the tank wall.
BAAQMD 8-5-501.1 8-5-602	Records (true vapor pressure)	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks, if organic compound is not listed in Table I
BAAQMD 8-6-301	Bulk Terminal Limitations	Manual of Procedures, Volume IV, ST-3, Bulk Gasoline Transfer Plants or ST-34, Bulk and Marine Loading Terminals, Vapor Recovery Units Refrigeration Unit or Carbon Adsorption Unit
BAAQMD 8-6-603	True Vapor Pressure	Manual of Procedures, Volume III, ST-3, Lab Method 28, Determination of Vapor Pressure of Organic Liquids
BAAQMD 8-6-604	True Vapor Pressure	Standard Reference Texts [Table 1, BAAQMD Regulation 8-5 OR EPA-450/3-87-026 [Exhibit A-2 in Appendix A or Appendix D]

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
		OR Raoult's Law of Partial Pressures for liquid mixtures as defined in BAAQMD 8-6-205 or ASTM Method D 2879-83
BAAQMD 8-8-312 8-8-504 8-8-603	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 8-8-504 8-8-603	Uncontrolled Wastewater Collection System Components At Petroleum Refineries	EPA Method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD 8-10-601	Process Vessel Opening VOC Concentration	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD 8-15-305	Prohibition of Manufacture and Sale (liquid asphalt or emulsified liquid product)	ASTM Distillation Method D402, or ASTM Distillation Method D244
BAAQMD 8-18-110 8-18-603	Exemption, Controlled Seal Systems and Pressure Relief Devices (95% control requirement)	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, or Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
BAAQMD 8-18-113 8-18-601	Exemption, Initial Boiling Point	ASTM D-1078-98 or ASTM D-86, Initial Boiling Point
BAAQMD 8-18-301,	Leak inspection procedures	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-18-302, 8-18-303, 8-18-304, 8-18-305 8-18-501 8-18-602		
BAAQMD 8-18-306 8-18-604	Determination of mass emissions	EPA Protocol for Equipment Leak Emission Estimates, Chapter 4, Mass Emission Sampling, (EPA-453/R-95-017) November 1995 <u>or a mass emission monitoring method determined to be equivalent by the EPA and approved by the APCO</u>
<u>BAAQMD 8-53-601</u>	<u>Measurement of TOC Concentrations</u>	<u>EPA Reference Methods 21 or 25A or BAAQMD Manual of Procedures, Volume IV, ST-7, Non-methane Organic Carbon Sampling</u>
<u>BAAQMD 8-53-602</u>	<u>Analysis of Materials, True Vapor Pressure</u>	<u>Manual of Procedures, Volume III, Lab Method 28: Determination of Vapor Pressure of Organic Liquids from Storage Tanks</u>
<u>BAAQMD 8-53-603</u>	<u>Analysis of Materials, Percent Water Volume</u>	<u>ASTM D96: Test Methods for Water and Sediment in Crude Oil by Centrifuge Method (Field Procedure), ASTM D1796: Water and Sediment in Fuel Oils by the Centrifuge Method (Laboratory Procedure), ASTM D6304: Karl Fisher Water in Petroleum Products, or percent water volume may be observed and calculated from a mixed, representative sample collected as specified b ASTM D4057</u>
<u>BAAQMD 8-53-604</u>	<u>Determination of Abatement Efficiency</u>	<u>Manual of Procedures, Volume IV, ST-7, or EPA Method 25 or 25A</u>
BAAQMD 9-1-301	Ground Level Monitoring	BAAQMD and SIP Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD 9-1-304	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
BAAQMD 9-1-313.2	Sulfur Removal and Recovery System	Manual of Procedures, Volume III, Method 25, Determination of Sulfur in Effluents or equivalent method approved by APCO
SIP 9-1-313.2	Sulfur Removal and Recovery System	Manual of Procedures, Volume III, Method 25, Determination of Sulfur in Effluents or equivalent method approved by APCO
BAAQMD	Continuous	Manual of Procedures, Volume V, Continuous Monitoring

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
9-1-501	Monitoring	
BAAQMD 9-2-301	Ground Level Monitoring	BAAQMD and SIP Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD 9-2-501	Continuous Monitoring	Manual of Procedures, Volume V, Continuous Monitoring
BAAQMD 9-10-301	Emission Limit for Facility; NOx: 0.033-lb NOx/MMBTU	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-10-303 and 9-10-308	Emission Limit For Facility (Federal Requirements) and ANCP	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-10-305	CO emission limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-10-306.2	Small unit tune-up requirements	Manual of Procedures, Volume I, Chapter 5, Boiler, Steam Generator, and Process Heater Tuning Procedure
BAAQMD 9-10-601	Determination of Nitrogen Oxides	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-10-602	Determination of Carbon Monoxide and Stack Gas Oxygen	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
<u>40 CFR Part 60 Subpart J 60.104(a)(1)</u>	<u>Fuel Gas H₂S Concentration Limit for Fuel Gas Combustion Devices (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u>	<u>Compliance for the following methods demonstrated through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries: 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</u>

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR Part 60 Subpart Ja 60.104a(i) 60.107a(a)(2) 60.107a(a)(2)(ii)	Fuel Gas H2S Concentration Limit for Fuel Gas Combustion Devices (Tank Degassing and Vapor Control Projects at Petroleum Refineries)	Compliance for the following methods demonstrated through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries: 40 CFR Part 60, Appendix A, Method 1 for sample and velocity traverses; 40 CFR Part 60, Appendix A, Method 2 for velocity and volumetric flow rate; 40 CFR Part 60, Appendix A, Method 3, 3A, or 3B for gas analysis; 40 CFR Part 60, Appendix A, Method 11, 15, or 15A for H2S concentration; and 40 CFR Part 60, Appendix B, Performance Specification 7 for H2S Continuous Emission Monitoring Systems
40 CFR, Part 60 Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/03)	
40 CFR, Part 60.112b(a) 60.116b	Vapor Pressure	ASTM Method D2879-83, 96, or 97. Test Method for Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isotenoscope.
40 CFR, Part 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	60 Subpart VV, 40 CFR, Part 60.485(b): EPA Reference Method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, Part 60 Subpart VV	Standards of Performance for Equipment Leaks (Fugitive Emission Sources) after January 5, 1981 and on or before November 7, 2006 (6/2/2008)	
40 CFR, Part 60.482-1 through 60.482-10 60.483 60.485(b)	Leak inspection procedures	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, Part 60.482-2(e), 60.482-4a(a),	No detectable emissions standards	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.482-4(b), 60.482-7a(f) ; 60.485(c)		
40 CFR, Part 60.482-1 through 60.482-10 60.485(d)	Determine % VOC content in process fluid (VOC service determination)	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR, Part 60.482-2 60.482-7 60.483 60.485(e)	Demonstrate equipment is in light liquid service	ASMT D2879-83, 96, or 97 (Vapor pressure) OR Standard reference texts
40 CFR, Part 60 Subpart VVa	Standards of Performance for Equipment Leaks (Fugitive Emission Sources) after November 7, 2006 (6/2/2008)	
40 CFR, Part 60.482-1a through 60.482-10a 60.483a 60.485a(b)	Leak inspection procedures	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, Part 60.482-2a(e), 60.482-4(aa), 60.482-4a(b), 60.482-7(af) ; 60.485a(c)	No detectable emissions standards	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, Part 60.482-1a through 60.482-10a 60.485a(d)	Determine % VOC content in process fluid (VOC service determination)	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR, Part 60.482-2a 60.482-7a 60.483a	Demonstrate equipment is in light liquid service	ASMT D2879-83, 96, or 97 (Vapor pressure) OR Standard reference texts

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
60.485a(e)		
40 CFR, Part 61 Subpart FF	National Emission Standards for Benzene Waste Operations	
40 CFR, Part 61.342(e)(2)(i)	Uncontrolled Benzene Wastewater Limit	40 CFR, Part 61 Subpart FF 61.355(k) Test Methods, Procedures, and Compliance Provisions
61.345(a)(1)(i) 61.355(h)	Standards: Containers-- Covers and Openings, no detectable emissions	EPA reference method 21 (40 CFR, Part 60, Appendix A), Determination of Volatile Organic Compound Leaks
61.355(c)(3)	Measure benzene concentration in waste streams	From "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846: (1) Method 8020, Aromatic Volatile Organics, (2) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series (3) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics (4) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique From 40 CFR Part 136, Appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which these are approved EPA methods: (1) Method 602, Purgeable Aromatics, Method 624, Purgeables
BAAQMD Condition 1240, parts II.26, II.31, II.31a, II.42, II.50, II.51, II.52, II.71, II.72, II.73, II.90 BAAQMD Condition 20762, parts 1, 2	Vapor pressure determination	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks

VIII. Test Methods

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] are not applicable 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.

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, as of the date this permit is issued, the federally enforceable “subsumed” monitoring requirements cited in the following table do not apply to the source or group of sources identified at the top of the table. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the “subsumed” monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the “subsumed” monitoring requirements cited.

Table IX B – 1
Permit Shield for Subsumed Requirements
COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
NSPS Subpart VV, 40 CFR, Part 60.482-2(c)	Pump Leak above 10,000 ppm or dripping liquid: First repair attempt before 5 days and repair before 15 days.	BAAQMD 8-18-303	Minimization of pump leak > 500 ppm within 24 hours and repair within 7 days.
NSPS Subpart VV, 40 CFR, Part 60.482-7(d)	Valve Leak above 10,000 ppm: First repair attempt before 5 days and repair before 15 days.	BAAQMD 8-18-302	Minimization of valve leak > 100 ppm within 24 hours and repair within 7 days.
NSPS Subpart VV, 40 CFR, Part 60.482-7(g)	Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor.	BAAQMD 8-18-404	BAAQMD Regulation 8-18-404 does not allow this relief.
NSPS Subpart	Allows relief from 60.482.7(a)	BAAQMD 8-18-206	Definition of inaccessible is

IX. Permit Shield

Table IX B – 1
Permit Shield for Subsumed Requirements
COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
VV, 40 CFR, Part 60.482-7(h)	monitoring if designated as difficult-to-monitor.		more stringent. Both 60.482.7(h) and 8-18-401.3 require yearly monitoring for difficult-to-monitor valves.
NSPS Subpart VV, 40 CFR, Part 60.482-9(e)	Allows delay of repair beyond a process unit shutdown under supply circumstances.	BAAQMD 8-18-306	BAAQMD Regulation 8-18-306 does not allow this relief.
NSPS Subpart VV, 40 CFR, Part 60.484	Alternative compliance plan only requires EPA approval.	BAAQMD 8-18-308	Requires public noticing and EPA approval of alternative compliance plan.
NSPS Subpart VVa, 40 CFR, Part 60.482-2a(c)	Pump Leak above 10,000 ppm or dripping liquid: First repair attempt before 5 days and repair before 15 days.	BAAQMD 8-18-303	Minimization of pump leak > 500 ppm within 24 hours and repair within 7 days.
NSPS Subpart VVa, 40 CFR, Part 60.482-7a(d)	Valve Leak above 10,000 ppm: First repair attempt before 5 days and repair before 15 days.	BAAQMD 8-18-302	Minimization of valve leak > 100 ppm within 24 hours and repair within 7 days.
NSPS Subpart VVa, 40 CFR, Part 60.482-7a(g)	Allows relief from 60.482.7(a) monitoring if designated as unsafe-to-monitor.	BAAQMD 8-18-404	BAAQMD Regulation 8-18-404 does not allow this relief.
NSPS Subpart VVa, 40 CFR, Part 60.482-7a(h)	Allows relief from 60.482.7(a) monitoring if designated as difficult-to-monitor.	BAAQMD 8-18-206	Definition of inaccessible is more stringent. Both 60.482.7(h) and 8-18-401.3 require yearly monitoring for difficult-to-monitor valves.
NSPS Subpart VVa, 40 CFR, Part 60.482-9a(e)	Allows delay of repair beyond a process unit shutdown under supply circumstances.	BAAQMD 8-18-306	BAAQMD Regulation 8-18-306 does not allow this relief.
NSPS Subpart VVa, 40 CFR,	Alternative compliance plan only requires EPA approval.	BAAQMD 8-18-308	Requires public noticing and EPA approval of alternative

IX. Permit Shield

Table IX B – 1
Permit Shield for Subsumed Requirements
COMPONENTS

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
Part 60.484a			compliance plan.

X. REVISION HISTORY

Initial Major Facility Review Permit Issuance
(Application 17468): December 1, 2003

Administrative Amendment (no application): May 27, 2004
Deferral of effective date for monitoring conditions for BAAQMD Regulation 9, Rule 10 in Section IV and VII tables for sources S19, S20, and S21 and in BAAQMD Condition 20617.

Minor Revision (Application 7471): September 2, 2004
Add new daily throughput limit and delete operating hours limit for S70, Asphalt Additive Mixing Tank, in BAAQMD Condition 20278 and the Section IV and VII tables for S70.

Reopening (Application 9297): December 16, 2004
Deletion of S29, Merox Treater
Deletion of temperature excursion language in BAAQMD Condition 1240, part I.19
Revision of BAAQMD Condition #21233 for monitoring of limits in BAAQMD Regulation 9, Rule 11
Addition of BAAQMD Regulation 1-523, Parametric Monitoring and Recordkeeping Procedures, for equipment with parametric monitors
Other details in final Statement of Basis for reopening

Significant Revision October 17, 2007
Application 10333/10334 Abatement Modifications for S26 & S27
Revisions to Table IIB, IV-R & S and VII-R & S
Application 11356 NOx Box Creation for S19, S20 & S21.
Change in NOx Box Condition 21233 in Section VI
Application 11815 A4 Operating Temperature
Condition 1240, part I.19 in Section VI and Table VII – AM
Application 12703/12704 A-31 Operating Temperature
Change in Condition 1240.II.58b in Section VI and Table VII – P
Application 12421 Tank Operation in Low Vapor Pressure Service
Addition of Condition 20762, changes to Tables IV-A and VII – A
Application 12477/12660 Minor Revisions to NOx Box Condition 21233

X. Revision History

Miscellaneous clarifications including Part 7.A.1 in Section VI.
Application 12236/12237 S24 Abatement Service Operating Temperature
Change in Condition 1240.II.58b and Table VII – AN
Application 12869, Correction of Test Methods
Revision to Table VIII, BAAQMD 8-5-328.1.2
Application 12875/13044 S-19 Source Test Minor Revision
Change in Condition 1240.I.16a in Section VI.
Application 13010/13011 Minor Revision to S-19 NOx Box
Revision to Condition 21233 Part 5.A in Section VI
Application 13206/13207 NSPS Subpart J 60.104(a)(1)
Change in Condition 1240.I.11 in Section VI and Table VII-M
Application 13812/13867 Kerosene Blending into Asphalt
Change in Condition 1240.II.71 in Section VI
Revision to Tables VII-K (S17) and VII-AB (S54)
Application 13941/13977 Emergency Diesel Air Compressor
Addition of Condition 22928 in Section VI
Revision of Conditions 1240.I.6, I.18g & I.18i, and 18796 in Section VI
Addition of Tables IV-AQ and VII-AQ
Additions of S71 and A71 to Tables IIA and IIB
Application 7980/8915 Valero LP Tank Ownership Transfer
Transfer ownership of S1, S2, S4, and S23 to Valero Logistics Operations
(Facility B5574)
Major Facility Permit issued by BAAQMD on October 4, 2006 as
Administrative Amendment
Changes in Tables IIA, IIB, and Section VII tables.
Delete Tables IV-B, VII-B, and IX-B-1
Delete Conditions 1240.II.1 and II.11 through 24
Change Conditions 1240.I.14 and I.18c
Application 15805/15806 Administrative change to NOx Box operating
parameter S19 (F-4601)
Revision of Condition 21233
Removal of S30 Marine Loading Dock, no longer in service since April 5, 2005 per
Valero's request letter dated April 17, 2007
Delete all applicable requirements and conditions related to S30

Renewal (Application 18289)

(December 20, 2010)

Application 17031/17030 Administrative Amendment to allow temperature
excursion for A-31 thermal oxidizer
Application 19194/19193 Atmospheric PRD removal project

X. Revision History

Application 19635/19384 Signification permit revision for A31/S24 minimum operating temperature
Application 19643/19631 Compliance option for Benzene Waste NESHAP 40 CFR, Part 61 Subpart FF
Application 21641/22051 Archiving S14 and S15, replacement of A4 with A17

Minor Revision (Application No.24260)

April ~~3023~~, 2013

- NSR 22609/TV 22610 (Condition 21233, source test submittal dates)
- NSR 22724/TV 22725 (Removal of S-19 and S-24 from Condition 21233, Condition 19329, and Reg 9-10 applicability)
- NSR 23459/TV23458 (S-12 Exemption Status)
- NSR 24278/TV 24277 (Decommission WW Sources)

Renewal (Application 27185)

(TBD)

- NSR 21641/TV 27185 (A17 Loading Rack Abatement Device) (This application was inadvertently omitted from Revision 3 SOB, but the permit changes were incorporated in the Revision 3 permit)
- NSR 23451/TV 23452 (Condition 21233 Low Fire Definition) (This application was addressed in the Revision 3 SOB, but the permit changes are incorporated in this Renewal permit, but then were subsequently superseded by deletion of Condition 21233 per AN 27720)
- NSR 27600/TV 27185 (BAAQMD 9-10 Alternate NOx Compliance Plan ANCP with Change of Conditions 19329, 21233, and 26250)
- NSR 27720/TV 27185 (Change of Conditions for 19329, 21233, 26250)
- NSR 27939/TV 27940 (Termination of Consent Decree) with new Condition 26298
- NSR 29774/TV 27184 (Revise descriptions of A1, A2, A3, A6, and A20 mist eliminators)

XI. GLOSSARY

ACP

Alternative Compliance Plan pursuant to BAAQMD Regulation 2, Rule 9, Interchangeable Emission Reduction Credits

ACT

Federal Clean Air Act

[ANCP](#)

[Alternate NOx Compliance Plan](#)

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CEM

Continuous Emission Monitor

CEQA

California Environmental Quality Act

CFR

The Code of Federal Regulations. 40 CFR, Part contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR, Part contain the requirements for air pollution programs.

CO

Carbon Monoxide

CO2

Carbon Dioxide

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

XI. Glossary

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.

dscm

dry standard cubic meter

District

The Bay Area Air Quality Management District

EMP

Environmental Management Plan

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District regulations.

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, (NPS), 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.~~

GLM

Ground Level Monitor

H₂S

Hydrogen Sulfide

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, and District Regulation 2, Rule 5.

HC

Hydrocarbon

XI. Glossary

IERC

Interchangeable Emission Reduction Credit

LEL

Lower Explosive Limit

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MDWEIGHT

Thousand Dead Weight Tons

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.

MM

Million

MOP

The District's Manual of Procedures.

NA

Not applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

NH3

Ammonia

NMHC

Non-methane Hydrocarbons

NOx

Oxides of nitrogen.

XI. Glossary

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 pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

OHAP

Organic Hazardous Air Pollutant

PHA

Process Hazard Analysis as defined by BAAQMD Regulation 8, Rule 28.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR, Part 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Particulate Matter

PMP

Prevention Measures Procedures

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 unit is defined as in 40 CFR Part 60, Subpart GGG, which states: "Process Unit means components assembled to produce

XI. Glossary

intermediate or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

RACT

Reasonably Available Control Technology

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.

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

SO₃

Sulfur trioxide

ST-7

Source Test Method #7: Non-Methane Organic Carbon Sampling

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.

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TRMP

Toxic Risk Management Plan

XI. Glossary

TSP

Total Suspended Particulate

TVP

True Vapor Pressure, psia

VOC

Volatile Organic Compounds

VOL

Volatile Organic Liquid

Units of Measure:

bbbl	=	barrel
bhp	=	brake-horsepower
btu	=	British Thermal Unit
cm	=	centimeter
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m	=	meter
m ²	=	square meter
min	=	minute
mm	=	millimeter
Mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year