

Bay Area Air Quality Management District

375 Beale Street
San Francisco, CA 94105
(415) 749-5000

Final "Revision 6"

MAJOR FACILITY REVIEW PERMIT

Issued To:

Tesoro Refining & Marketing Company LLC

Facility #B2758 & Facility #B2759

Facility Addresses:

Facility #B2758	Facility #B2759
Martinez Refinery	Amorco Terminal
150 Solano Way	1750 Marina Vista Way
Martinez, CA 94553	Martinez, CA 94553

Mailing Address:

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Martinez, CA 94533

Responsible Official

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General Manager
(925) 372-3031

Facility Contact

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Environmental Supervisor
(925) 372-3006

Type of Facility: Industrial Organic Chemicals
Gasoline Distribution

BAAQMD Engineering Division Contact:
Danny Nip

Primary SIC: 2869

Product: Renewable Products

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Pamela J Leong, Director of Engineering

March 18, 2024

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 5/4/2011);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA on 6/28/1999);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 12/15/2021);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA on 5/21/2018);

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

(as amended by the District Board on 12/6/2017; as approved by EPA on 5/21/2018);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/6/2017; as approved by EPA on 5/21/2018);

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

(as amended by the District Board on 12/15/2021);

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

(as amended by the District Board on 12/6/2017); and.

SIP Regulation 2, Rule 6 – Permits, Major Facility Review

(as approved by EPA through 6/23/1995)

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

1. This Major Facility Review Permit was issued on September 29, 2023, and expires on September 28, 2028. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than March 28, 2028, and no earlier than September 28, 2027. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after September 28, 2028.** If the permit renewal has not been issued by September 28, 2028, 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 or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

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

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

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

F. Monitoring Reports

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

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
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. Certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address

above, and a copy of the certification shall be sent by e-mail to aeo_r9@epa.gov or postal mail to the Environmental Protection Agency at the following address:

Director, Enforcement and Compliance Assurance Division
Air Enforcement Section (ENF-2-1)
USEPA, Region 9
75 Hawthorne Street
San Francisco, CA 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 A1A, Table II A1B, or Table II A2, for each source with a capacity identified as a firm limit, the maximum capacity for each source as shown in Table II A1A, Table II A1B, or Table II A2 is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)
2. In Table II A1C or Table II A2, for each source identified as a grandfathered source, the throughput limits as shown in Table II A1C and Table II A2 are based upon District records at the time of the MFR permit issuance. These throughput limits function as reporting thresholds only and exceedance of any of these limits does not constitute noncompliance with the MFR permit. As such, exceedance of a grandfathered limit is not subject to Section I.F reporting requirements. Exceedance of a grandfathered limit does not establish a presumption that a

modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. The facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The applications shall be sent by e-mail to permits@baaqmd.gov or postal mail to the following address: (Regulation 2-1-234.3).

Air Quality Engineering Manager
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Engineering Division, Title V Reports

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 as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours after the unscheduled startup/shutdown 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. The requirement is not federally enforceable. [basis: 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. When the designation in this Title V Permit of a BAAQMD rule/regulation as federally enforceable is based on inclusion in the SIP, then only the sections, portions, or versions of the BAAQMD rule/regulation included in the SIP shall be considered federally enforceable.
6. Permittee shall comply with all applicable regulations that become effective during the term of this permit.

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 A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301.

Throughput limits function as reporting thresholds as described in Standard Conditions J.1.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
134	Tank A-134, Light Green, Recovered Oil A14 Vapor Recovery	Fixed roof tank		651K gal 700K bbl/yr	Firm Limit Condition #20923, part 1 New Source Review
137	Tank A-137, Light Green Fuel Oil #2, Waste Oil, Gasoline A14 Vapor Recovery	Fixed roof tank		659K gal 1,915K bbl/yr	Firm Limit Condition #10984, part 2 New Source Review
323	Tank A-323, White Slop Oil A14 Vapor Recovery	Fixed roof		924K gal 2,000K bbl/yr	Firm Limit Condition #13605, part 1 New Source Review
532	Oil Water Separator; (Tank 532 modified as OWS) #50 Crude Unit Desalter Skim Tank A14 Vapor Recovery	Custom		630K gal 2,505,360 bbl/yr	Firm Limit Condition #20099, part 1 New Source Review
598	Tank A-598, Renewable Naphtha	Sphere		478K gal	New Source Review
612	Tank A-612, White Ethyl Alcohol	Internal floating roof		420K gal 1,200K bbl/yr	Firm Limit Condition #6740, part 3 New Source Review
621	Tank A-621, Intermediate HDO Product	External floating roof		3,360K gal 58K bbl/day 12,045K bbl/12 consecutive months	Firm Limit Condition #27597, Part 1 New Source Review
651	Tank A-651 Oil/Water Mixture, Sour Waste Water	External floating roof		5,502K gal 26,731 bbl/day 5,631,429 bbl/12 consecutive months	Firm Limit Condition #27603, Part 1 New Source Review
652	Tank A-652, Renewable Naphtha	Sphere		512K gal	New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
690	Tank A-690, White Crude Oil	External floating roof		13,020K gal 18,250K bbl/yr	Firm Limit Condition 24724 part 1 New Source Review
695	Tank A-695, Renewable Naphtha	Sphere		1,071K gal	New Source Review
706	Tank 113-A-706, Blue Crude Oil	External floating roof		4,746K gal 597.8 K bbl/yr 2,557 lbs total organic emissions per year	1978 Application 26763 New Source Review
707	Tank 113-A-707, Medium grey Crude Oil, Hydrocarbon	External floating roof		4,746K gal 531K bbl/yr 3,355 lbs total organic emissions per year	1978 Application 26763 New Source Review
708	Tank 113-A-708, Blue Crude Oil	External floating roof		13,146K gal 1769.9K bbl/yr 9,508 lbs total organic emissions per year	1978 Application 26763 New Source Review
709	Tank 113-A-709, Green Crude Oil, Waste Oil	External floating roof		4,746K gal 4934.1K bbl/yr 5,302 lbs total organic emissions per year	1978 Application 26763 New Source Review
714	Tank A-714, White Organic Liquid – other/not Spec, Hydrocarbon Alkylation Spent Acid Abated by A-714 Scrubber A-14 Vapor Recovery	Fixed roof		231K gal 500K bbl/yr	Firm Limit Condition 8538, part 5 New Source Review
775	Tank A-849 Gasoline	Internal floating roof		4,605K gal 11,336,000 bbl/yr	Firm Limit Condition #19762, part A1 New Source Review
850	Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit)	Union Finer		23K bbl/day 7,300K bbl/12 consecutive months	Firm Limit Condition #27584, Part 2 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
871	Tank A-871 Crude, Low Sulfur Vacuum Gas Oil	External Floating Roof		13,146K gal 20,000K bbl/yr	Firm Limit Condition #21393, part 1 New Source Review
896	Tank A-896, Off- white, Slop oil	External Floating Roof		1805K gal 2,500K bbl/yr	Firm Limit Condition 23263, part 1 New Source Review
919	No. 2 HDS Depent Reboiler (F19) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	65 mmbtu/hr 569,400 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, part B5 Condition #16685, part 1 Condition #18372, part 3
920	No. 2 HDS Charge Heater (F20) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	63 mmbtu/hr 551,880 mmbtu/yr	Firm Limit 1991 Application 6468 New Source Review Condition #8350, Part B6 Condition #16685, part 1 Condition #18372, part 3
928	HDN Reactor A Heater (F28) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
929	HDN Reactor B Heater (F29) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
930	HDN Reactor C Heater (F30) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
931	Hydrocracker Reactor 1 Heater (F31) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
932	Hydrocracker Reactor 2 Heater (F32) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
933	Hydrocracker Reactor 3 Heater (F33) Fuel Gas, Natural Gas	Foster Wheeler	Cabin	20 mmbtu/hr 175,200 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C3 Condition #16685, part 1
934	Hydrocracker Stabilizer Reboiler (F34) Fuel Gas, Natural Gas	Foster Wheeler	Vertical Cylindrical	135 mmbtu/hr 1,182,600 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C4 Condition #16685, part 1
935	Hydrocracker Splitter Reboiler (F35), Fuel Gas, Natural Gas	Foster Wheeler	Vertical Cylindrical	135 mmbtu/hr 1,182,600 mmbtu/yr	Firm Limit 1987 Application 548 New Source Review Condition #8077, part C4 Condition #16685, part 1
982	Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower	Pritchard	4-3042LA18	25,920K gal/day 9,460,800K gal/yr	Firm Limit Condition# 19199, part E1 New Source Review
992	Emergency Flare Natural Gas, Vent Gas Abates: See Note 1			13,200 mmbtu/hr 316,800 mmbtu/day	Firm Limit 1982 Application 28626 New Source Review
1002	Propane Dryers (formerly No. 1 HDS Unit)			6,000 bbl/day 1,460K bbl/12 consecutive months	Firm Limit Condition #27584, Part 5 New Source Review
1003	Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)			20K bbl/day 6,570K bbl/12 consecutive months	Firm Limit Condition #27584, Part 3 New Source Review
1007	Diesel Isomerization Unit (formerly 2nd Stage Hydrocracker Unit)			58K bbl/day 48K bbl/day based on rolling 365-day average	Firm Limit Condition #27584, Part 6 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1008	Diesel HDO Unit No. 1 (formerly 1st Stage Hydrocracker Unit)			24K bbl/day 7,300K bbl/12 consecutive months	Firm Limit Condition #27584, Part 4 New Source Review
1026	DNF Effluent Air Stripper Abated by A-39 Thermal Oxidizer			0.48 ton/day 175.2 ton/yr	New Source Review
1038	Benzene Saturation Unit			15,000 bbl/day 5,475 K bbl/yr	Firm Limit Condition #23258, part 1 New Source Review
1105	No. 4 HDS Unit			40080 BPD 14,629,200 BPY	Firm Limit Condition #19199, Part G0 New Source Review
1106	No. 4 HDS Reactor Feed Heater (F72) Natural Gas	Tulsa Heater	Two Vertical Cylindrical	30 mmbtu/hr (24-hour average) 225.257 mmscf/yr	Firm Limit Condition #19199, part H0, H3 New Source Review
1452	Hydrocarbon Recovery System, 39 light hydrocarbon pumps, 13 heavy hydrocarbon pump			5,000K bbl/yr	Firm Limit Condition 9875, part 6 New Source Review
1461	Tank A-866, White Crude Oil	External floating roof		10,080K gal 50,000,000 bbl/yr	Firm Limit Condition #17477, part A1 New Source Review
1464	Tank A-868, Off-white Petroleum Diesel, Renewable Diesel	External floating roof		4,200K gal 72,000 bbl/day 10,000,000 bbl/12 consecutive months	Firm Limit Condition #17477, part D1 New Source Review
1465	Tank A-869, Off-white Petroleum Diesel, Renewable Diesel	External floating roof		4,200K gal 72,000 bbl/day 10,000,000 bbl/12 consecutive months	Firm Limit Condition #17477, part E1 New Source Review
1473	Storage Tank Ethyl Mercaptan Odorant	Pressurized tank		1000 gal 3000 gal/rolling 12-months	Firm Limit Condition #19197, part 2 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1485	Tank A-870 Gasoline Blending Components (heavy cracked naphtha, cat cracked heavy naphtha, heavy naphtha reformat, heavy catalytic reformed naphtha, medium reformat fractionator bottoms, stabilized reformat, FCC gasoline)	Floating Roof Tank		130K bbl 11,000K bbl/yr	Firm Limit Condition #20520, part 1 New Source Review
1487	Tank 38 Fire-Water Pump Engine, Diesel Fired	Caterpillar	3406 DBITA	2.79 MMBtu/hr, 420 HP, 34 hrs/yr	Firm Limit Condition # 22851, part 1 New Source Review
1488	Canal Fire-Water Pump Engine, Diesel Fired	Caterpillar	3412T	3.5 MMBtu/hr, 538 HP, 34 hrs/yr	Firm Limit Condition #22851, part 1 New Source Review
1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water Mixture Abated by A-1001 Activated Carbon Abated by A-1002 Activated Carbon	Portable, fixed volume	Safety-Vapor	500 bbl 13,000 bbl/yr	Firm Limit Condition #21536, part 1 New Source Review
1490	Fixed Volume Portable Tank #2, White, Slop Oil and Water Mixture Abated by A-1001 Activated Carbon Abated by A-1002 Activated Carbon	Portable, fixed volume	Safety-Vapor	500 bbl 13,000 bbl/yr	Firm Limit Condition #21536, part 2 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture Abated by A-1001 Activated Carbon Abated by A-1002 Activated Carbon	Portable, fixed volume	Safety-Vapor	500 bbl 13,000 bbl/yr	Firm Limit Condition #21535, part 1 New Source Review
1504	Bulk Plant Unloading Rack, 2 pumps Ethanol			1,200K bbl/12 consecutive months	Firm Limit Condition #21849, part 13 New Source Review
1506	Tank A-893 Gasoline, Gasoline Blending Stock	External Floating Roof Tank		132,000 barrels 11,000K barrels/yr	Firm Limit Condition #22640, part 1 New Source Review
1507	Tank A-894 Gasoline, Gasoline Blending Stock	External Floating Roof Tank		132,000 barrels 11,000K barrels/yr	Firm Limit Condition #22640, part 1 New Source Review
1511	Hot Oil Heater #1 (F78) Natural gas, fuel gas Abated by A-1511 SCR	John Zink, ultra-low-NOx, or equivalent		230 mmbtu/hr 2,014,800 MMbtu/ consecutive 12 months combined limit for fuel gas and natural gas	Firm Limit Condition #23129, part 14 New Source Review
1512	Hot Oil Heater #2 (F79) Natural gas, fuel gas Abated by A-1512 SCR	John Zink, ultra-low-NOx, or equivalent		230 mmbtu/hr 2,014,800 MMbtu/ consecutive 12 months combined limit for fuel gas and natural gas	Firm Limit Condition #23129, part 14 New Source Review
1517	Coker Flare Natural gas, Vent gas Abates: See Note 1			24,500 MMbtu/hr 588,300 MMbtu/day 14.235 MMscf/ consecutive 12 months natural gas to flare purge and pilots	Firm Limits Conditions #23129, parts 53 & 56 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1518	North Reservoir West Fire Water Pump Engine, Diesel Fired P10294, EN # 4146	Cummins	CFP11E-F20	360 BHP, 34 hrs/yr	Firm Limit Condition #22851, part 1 New Source Review
1519	North Reservoir East Fire Water Pump Engine, Diesel Fired, P10295, EN# 4147	Cummins	CFP11E-F20	360 BHP, 34 hrs/yr	Firm Limit Condition #22851, part 1 New Source Review
1521	Tank A-904	External floating roof		5,502 K gal 10,000K bbl/yr	Firm Limit Condition # 23739, part 1 New Source Review
1525	Gasoline Dispensing Station, Non-Retail, 1 nozzle	Containment Solutions Hoover Vault Aboveground Fuelmaster UL-2244 Tank with Phase I and Phase II vapor recovery (balance) Nozzle: EMCO Wheaton A-4015	System: CARB Executive Order G-70-194 Nozzle: CARB Executive Order G-70-52AM	5,000 gal tank 440K gal/year	Firm Limit Condition 24172 New Source Review
1528	Alkylate Railcar Unloading Rack	Four unloading slots, 2 pumps,		2,000,000 barrels/rolling 12-months	Firm Limit Condition 13605, Part 1 New Source Review
1550	Backup Steam Boiler No. 1 Natural gas Abated by A1550 SCR	Rental (various)	Various	≤ 99 MMBtu/hr Combined firing of S1550, S1551, S1553, S1558 and S1559 will not exceed 12,319,560 therms/consecutive 12 months	Firm Limit Condition 24491, Parts 1 & 6 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1551	Backup Steam Boiler No. 2 Natural gas Abated by A1551 SCR	Rental (various)	Various	≤ 99 MMBtu/hr Combined firing of S1550, S1551, S1553, S1558 and S1559 will not exceed 12,319,560 therms/consecutive 12 months	Firm Limit Condition 24491, Parts 1 & 6 New Source Review
1552	No 1 Pump Station, Emergency Pump Diesel Engine	Caterpillar	C-7	205 BHP, 50 hrs/yr	Firm Limit Condition #23811, part 1 New Source Review
1553	Backup Steam Boiler No. 3 Natural gas Abated by A1551 SCR	Rental (various)	Various	≤ 99 MMBtu/hr Combined firing of S1550, S1551, S1553, S1558 and S1559 will not exceed 12,319,560 therms/consecutive 12 months	Firm Limit Condition 24491, Parts 1 & 6 New Source Review
1555	Reformate Splitter			40.0K bbl/day 14,600K bbl/yr	Firm Limit 1993 Application 10912 New Source Review Condition #25476, Part 2
1557	Emergency Generator, Diesel Fired, Central Maintenance Building	Caterpillar	C-15	762 BHP, 50 hrs/yr	Firm Limit Condition #23811, part 1 New Source Review
1558	Backup Steam Boiler No. 4 Natural gas Abated by A1558 SCR	Rental (various)	Various	≤ 99 MMBtu/hr Combined firing of S1550, S1551, S1553, S1558 and S1559 will not exceed 12,319,560 therms/consecutive 12 months	Firm Limit Condition 24491, Parts 1 & 6 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1559	Backup Steam Boiler No. 5 Natural gas Abated by A1559 SCR	Rental (various)	Various	≤ 99 MMBtu/hr Combined firing of S1550, S1551, S1553, S1558 and S1559 will not exceed 12,319,560 therms/consecutive 12 months	Firm Limit Condition 24491, Parts 1& 6 New Source Review
1560	Avon Wharf Berth No. 1A, Marine Bulk Plant with A1560 Vapor Recovery System Loading: Gasoline, Blendstocks, Diesel, Distillate, Residual Oil, Renewable Diesel, Renewable Naphtha Unloading: Gasoline, Blendstocks, Diesel, Distillate and Residual Oil			30,000K bbl/12 consecutive months Loading Renewable Naphtha: 55,200 bbl/day 365,000 bbl/12 consecutive months	Firm Limit Condition #26406, Parts 1 and 13 New Source Review
1561	Emergency Generator, Diesel Fired, Avon Berth 1A	Caterpillar	C-9	398 BHP, 50 hrs/yr	Firm Limit Condition 23811, Part 1 New Source Review
1562	Avon Berth 1A East Diesel Firewater Pump	Caterpillar	C-18	700 BHP, 34 hrs/yr	Firm Limit Condition 22851, Part 1 New Source Review
1563	Avon Berth 1A West Diesel Firewater Pump	Caterpillar	C-18	700 BHP, 34 hrs/yr	Firm Limit Condition 22851, Part 1 New Source Review
1564	Tank A-938 Avon Wharf Recovered Oil Tank, Berth 1A	Fixed Roof Tank		3,800 gallons 250,000 gallons/12-months	Firm Limit Condition 26408, Part 1 New Source Review
1572	Emergency Generator, Diesel Fired, No. 4 Gas Plant	Caterpillar	3516C	2722 BHP, 50 hrs/yr	Firm Limit Condition 23811, Part 1 New Source Review

Table II A1A – Permitted Sources (New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1599	Emergency Standby Diesel Pump at Surge Pond 2, Diesel Fired	John Deere	6090HF485	325 BHP, 50 hrs/yr	Firm Limit Condition 22850 Part 1 New Source Review
2001	Stage 1 Wastewater Treatment Unit			864K gal/day 236,520K gal/12 consecutive months	Firm Limit Condition #27610, Part 1 New Source Review
2003	DAF Unit	Fixed Roof		864K gal/day 236,520K gal/12 consecutive months	Firm Limit Condition #27610, Part 1 New Source Review
2010	Tank A-876, Stage 1 WWTP, Equalization Tank (formerly S-1496), Waste Water	Fixed roof tank		80,000 barrels 864K gal/day 236,520K gal/12 consecutive months	Firm Limit Condition #27610, Part 1
2013	Tank A-432, Moving Bed Biofilm Reactor (formerly S-432)	No roof		2,688K gal 864K gal/day 236,520K gal/12 consecutive months	Firm Limit Condition #27610, Part 1 New Source Review
2023	Tank TK-1044, Polymer Storage Tank	Fixed Roof		1,000 gal 30.9 bbl/day 250 bbl/12 consecutive months	Firm Limit Condition #27598, Part 1 New Source Review
2025	Pretreatment Unit			48K bbl/day 17,520K bbl/12 consecutive months	Firm Limit Condition #27584, Part 7 New Source Review

NOTE 1 – THE MAIN HYDROCARBON FLARES THAT REFERENCE THIS NOTE ARE OPERATED IN ACCORDANCE WITH THE FLARE MINIMIZATION PLAN REQUIRED BY REGULATION 12, RULE 12. UNDER NORMAL OPERATION, WASTE GAS FROM MOST PROCESS UNITS IS DISCHARGED INTO THE FLARE GAS RECOVERY HEADER WHERE IT IS GATHERED, COMPRESSED, AND DISCHARGED INTO THE FACILITY’S 100# FUEL GAS SYSTEM. IN THE 100# FUEL GAS SYSTEM, THE RECOVERED WASTE GAS IS TREATED AND COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. UNDER NON-ROUTINE OPERATION, WHEN THE QUANTITY OF THE WASTE GAS EXCEEDS THE CAPACITY OF THE FLARE GAS RECOVERY COMPRESSORS, OR WHEN THERE IS AN EVENT THAT AUTOMATICALLY OR MANUALLY VENTS EXCESS PROCESS GAS, THE GAS THAT IS NOT RECOVERED TO THE 100# FUEL GAS SYSTEM IS COMBUSTED IN THE FLARES. SOURCES THAT ARE VENTED TO THE FLARE GAS RECOVERY SYSTEM ARE PROCESS UNITS S850, S1002, S1003, S1005, S1007, S1008, S1038, S1105, S1526, TANKS S656 AND S658, AND THE AIR PRODUCTS NO. 2 HYDROGEN PLANT. DURING NORMAL OPERATION, THE EMISSIONS FROM MANY OTHER SOURCES SUCH AS TANKS, OIL WATER SEPARATORS, AND PRODUCT LOADING OPERATIONS ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM AND ROUTED TO THE FACILITY’S 100# FUEL GAS SYSTEM WHERE THEY ARE COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. SOURCES THAT ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM ARE S532, S819, S1007, S1008, S1025, S1526, TANKS S134, S137, S318, S323, S603, S613, S656, S658, S699, S714, AND S1496. THESE FLARES ARE ABATEMENT DEVICES AS DEFINED IN REGULATION 1-240. HOWEVER, THESE FLARES ARE NOT CONTROL DEVICES THAT ARE USED TO MEET THE REQUIREMENTS OF 40 CFR 60, 40 CFR 61, OR 40 CFR 63 (NSPS, NESHAPS OR MACT) SINCE WASTE GAS IS COMBUSTED IN THE FLARES ONLY DURING NON-ROUTINE OPERATION.

Table II A1B – Permitted Sources (Non-Grandfathered and Non-New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301 or 2-1-302. Throughput limits that function as reporting thresholds are described in Standard Conditions J.1.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
115	Bulk Plant (truck/rail); Caustic waste; Railcar loading rack north of water reservoir			12,871 bbl/24-hour 84,621 bbl/12-month	Firm Limit Condition 27587, Part 1
601	Tank A-601, Black Recovered Oil, Gas Oil	Internal floating roof		714K gal 6,105 bbl/day 243,882 bbl/12 consecutive months	Firm Limit Condition #27587, Part 2
650	Tank A-650 Sour Waste Water	External floating roof		5,502K gal 81,751 bbl/day 743,831 bbl/12 consecutive months	Firm Limit Condition #27587, Part 3
656	Tank A-846, Foul Water Stripper Charge Tank, Sour Waste Water A-12 Vapor Recovery A-14 Vapor Recovery	Fixed roof		126K gal 47,870 bbl/day 13,706,224 bbl/12 consecutive months	Firm Limit Condition #10696, Part 5
658	Tank A-847, Foul Water Stripper Charge Tank, Sour Waste Water A-12 Vapor Recovery A-14 Vapor Recovery	Fixed roof		126K gal 47,870 bbl/day 13,706,224 bbl/12 consecutive months 28,470K bbl/yr	Firm Limit Condition #10696, Part 6
692	Tank A-692, White Gasoline, Renewable Naphtha	External floating roof		3,276K gal 54,882 bbl/day 2,650,447 bbl/12 consecutive months (Gasoline and Renewable Naphtha) 54,882 bbl/day 365,000 bbl/12 consecutive months (Renewable Naphtha)	Firm Limit Condition #27587, Part 4
699	Tank A-699, White API Separator Recovered Oil A-14 Vapor Recovery	Fixed roof		14,982 bbl/24-hour 522,234 bbl/12-month	Firm Limit Condition 27587, Part 5

Table II A1B – Permitted Sources (Non-Grandfathered and Non-New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301 or 2-1-302. Throughput limits that function as reporting thresholds are described in Standard Conditions J.1.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
700	Tank 2-A-700, Light grey API Separator Sludge	Fixed roof		23,039 bbl/24-hour 1,166,667 bbl/12-month	Firm Limit Condition 27587, Part 6
819	API Oil-Water Separator/Dissolved Nitrogen Flotation System Abated by A-39 Thermal Oxidizer or A-14 Vapor Recovery	Bechtel		435,936 bbl/day 32,537,143 bbl/12 consecutive months	Firm Limit Condition #27587, Part 12
830	Wastewater Surge Ponds			319,476 bbl/day 35,522,066 bbl/12 consecutive months	Firm Limit Condition #27587, Part 13
831	Bio-Oxidation Pond Open pond			319,476 bbl/day 35,522,066 bbl/12 consecutive months	Firm Limit Condition #27587, Part 14
842	Wastewater Treatment Plant Clarifiers, filters, and granular activated carbon	Jacobs Engineering Co.		319,476 bbl/day 35,522,066 bbl/12 consecutive months	Firm Limit Condition #27587, Part 15
846	Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit) Cooling Tower	Marley Sigma	126-104	6,500 gal/min	Firm Limit Condition #27587, Part 7
854	East Air Flare Vent Gas, Natural Gas Abates: See Note 1			1,900 mmbtu/hr 45,600 mmbtu/day	Firm limit 1981 Application 27769
926	No. 2 Reformer Splitter Reboiler (F26) Refinery Fuel Gas, Natural Gas	Petro Chem	Vertical Cylindrical	130 mmbtu/hr 1,138,800 mmbtu/yr	Firm Limit Condition #25476, Part 6 Condition #16685, part 1 Condition #18372, part 3

Table II A1B – Permitted Sources (Non-Grandfathered and Non-New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301 or 2-1-302. Throughput limits that function as reporting thresholds are described in Standard Conditions J.1.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
937	Hydrogen Plant Heater (F37) Fuel Gas, Natural Gas	Selas	Twin Cell Reformer	743 mmbtu/hr 6,508,680 mmbtu/yr	Firm Limit Condition #16685, part 1
973	No. 3 HDS Recycle Gas Heater (F55) Fuel Gas, Natural Gas Abated by A-31 SCR	Entec	Vertical Cylindrical	110 mmbtu/hr 963,600 mmbtu/yr	Firm Limit Conditions #8077, Part B7B #16685, part 1
976	No. 5 Gas Plant Cooling Tower	Marley	11-24-F5	64,500 gal/min 92,880K gal/day 33,901,200K gal/yr	Firm Limit Condition #27587, Part 8
978	Foul Water Stripper Cooling Tower	Fluor	JCF-2164-23048ALP-SP	5,200 gal/min 7,488K bbl/day 2,733,120K bbl/yr	Firm Limit Condition #27587, Part 9
980	Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower	Fluor	3F60D-164V-3030BPF	14,028 gal/min 20,200,320 gal/day 7,373,116,800 gal/yr	Firm Limit Condition #27587, Part 10
985	No. 1 Gas Plant Cooling Tower	Fluor	2NDD-144-2430	5,500 gal/min 7,920K gal/day 2,890,800K gal/yr	Firm Limit Condition #27587, Part 11
1005	No. 1 Hydrogen Plant	Bechtel/Parsons		Hydrogen Production 93 mmscf/day 31,025 mmscf/yr	Firm Limit Condition 24321, Part 1
1025	Bulk Plant; Bottom Loading Facilities, Gasoline, Diesel, Renewable Diesel A-14 Vapor Recovery	Oilco		18,615K bbl/12 consecutive months 64,457 bbl/day	Firm Limit Condition #21849, part 9
1471	Landsend Fire Water Pump Engine; Diesel Fired	Cummins	N855P235	130 HP, 34 hrs/yr	Firm Limit Condition #22851, part 1
1472	Tract 4 North Fire Water Pump Engine; Diesel Fired	Caterpillar	3406BD1	430 HP, 34 hrs/yr	Firm Limit Condition #22851, part 1

Table II A1B – Permitted Sources (Non-Grandfathered and Non-New Source Review)

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301 or 2-1-302. Throughput limits that function as reporting thresholds are described in Standard Conditions J.1.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1526	No. 5 Gas Plant, Abated by A-2001 H2S Adsorption Vessels			9K bbl/day 1,825K bbl/12 consecutive months (renewable propane and renewable naphtha) 3.46 MMscf/hr 40 MMscf/day	Firm Limit Condition #27585, Parts 1 and 2
1549	Tank 890, Diesel Additive	Horizontal Fixed Roof		6,000 gallons 40,000 gal/rolling 12-months	Firm Limit Condition 24649, Part 1
1600	Sour Water Strippers, Abated by A-2002 H2S Adsorption Vessels and A-2000 Sour Water Stripper Thermal Oxidizer			47,870 bbl/day 13,706,224 bbl/12 consecutive months	Firm Limit Condition #27586, Part 1

NOTE 1 – THE MAIN HYDROCARBON FLARES THAT REFERENCE THIS NOTE ARE OPERATED IN ACCORDANCE WITH THE FLARE MINIMIZATION PLAN REQUIRED BY REGULATION 12, RULE 12. UNDER NORMAL OPERATION, WASTE GAS FROM MOST PROCESS UNITS IS DISCHARGED INTO THE FLARE GAS RECOVERY HEADER WHERE IT IS GATHERED, COMPRESSED, AND DISCHARGED INTO THE FACILITY’S 100# FUEL GAS SYSTEM. IN THE 100# FUEL GAS SYSTEM, THE RECOVERED WASTE GAS IS TREATED AND COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. UNDER NON-ROUTINE OPERATION, WHEN THE QUANTITY OF THE WASTE GAS EXCEEDS THE CAPACITY OF THE FLARE GAS RECOVERY COMPRESSORS, OR WHEN THERE IS AN EVENT THAT AUTOMATICALLY OR MANUALLY VENTS EXCESS PROCESS GAS, THE GAS THAT IS NOT RECOVERED TO THE 100# FUEL GAS SYSTEM IS COMBUSTED IN THE FLARES. SOURCES THAT ARE VENTED TO THE FLARE GAS RECOVERY SYSTEM ARE PROCESS UNITS S850, S1002, S1003, S1005, S1007, S1008, S1038, S1105, S1526, TANKS S656 AND S658, AND THE AIR PRODUCTS No. 2 HYDROGEN PLANT. DURING NORMAL OPERATION, THE EMISSIONS FROM MANY OTHER SOURCES SUCH AS TANKS, OIL WATER SEPARATORS, AND PRODUCT LOADING OPERATIONS ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM AND ROUTED TO THE FACILITY’S 100# FUEL GAS SYSTEM WHERE THEY ARE COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. SOURCES THAT ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM ARE S532, S819, S1007, S1008, S1025, S1526, TANKS S134, S137, S318, S323, S603, S613, S656, S658, S699, S714, AND S1496. THESE FLARES ARE ABATEMENT DEVICES AS DEFINED IN REGULATION 1-240. HOWEVER, THESE FLARES ARE NOT CONTROL DEVICES THAT ARE USED TO MEET THE REQUIREMENTS OF 40 CFR 60, 40 CFR 61, OR 40 CFR 63 (NSPS, NESHAPS OR MACT) SINCE WASTE GAS IS COMBUSTED IN THE FLARES ONLY DURING NON-ROUTINE OPERATION.

Table II A1C – Permitted Sources - Grandfathered

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
26	Tank A-26, White Gasoline	External floating roof		4,536K gal 10,375K bbl/yr	Grandfathered Limit
33	Tank A-33, White Gasoline	External floating roof		4,536K gal 10,375K bbl/yr	Grandfathered Limit
101	Truck Rack, Tract 2 Slops Truck Rack; Unloading only: Crude Oil, Naphtha, Transmix, Fuel Oil			7,300K bbl/yr	Grandfathered Limit
217	Tank A-217, White Ethers, Gasoline	External floating roof		4,494K gal 10,375K bbl/yr	Grandfathered Limit
603	Tank A-603, Black Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank A14 Vapor Recovery	Fixed roof		126K gal 25,029K bbl/yr	Grandfathered Limit
613	Tank A-613, White Vapor Storage Tank A14 Vapor Recovery	Fixed roof with internal diaphragm seal		420K gal	N/A
637	Tank A-637, White Naphtha	External floating roof		3,360K gal 5,014K bbl/yr	Grandfathered Limit
638	Tank A-638, White Naphtha, Gas Oil, Gasoline	External floating roof		3,360K gal 7,869K bbl/yr	Grandfathered Limit
639	Tank A-639, White Naphtha	External floating roof		3,360K gal 5,014K bbl/yr	Grandfathered Limit
640	Tank A-640, White Distillate Oil, Gasoline	External floating roof		3,360K gal 5,014K bbl/yr	Grandfathered Limit
641	Tank A-641, White Distillate Oil, Gasoline	External floating roof		3,360K gal 7,869K bbl/yr	Grandfathered Limit
664	Tank A-664, White Gasoline	External floating roof		5,460K gal 12,800K bbl/yr	Grandfathered Limit
694	Tank A-694, White Crude Oil	External floating roof		13,230K gal 21,900K bbl/yr	Grandfathered Limit

Table II A1C – Permitted Sources - Grandfathered

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
696	Tank A-696, White Gasoline	Internal floating roof		630K gal 2,000K bbl/yr	Grandfathered Limit
701	Tank A-701, White Crude Oil	External floating roof		13,020K gal 21,900K bbl/yr	Grandfathered Limit
702	Tank A-702, White Gasoline	External floating roof		5,502K gal 12,800K bbl/yr	Grandfathered Limit
705	Tank A-705, Light Green Crude Oil	External floating roof		9,366K gal 21,900K bbl/yr	Grandfathered Limit
710	Tank A-710, Green Alkylate, Gasoline	External floating roof		3,360K gal 12,800K bbl/yr	Grandfathered Limit
711	Tank 80-A-711, Green Crude Oil, Gasoline	External floating roof		3,360K gal 12,800K bbl/yr	Grandfathered Limit
771	Tank 2-A-713, White DEA (Alcohol, Amine)	External floating roof		84K gal 17,520K bbl/yr	Grandfathered Limit
821	Coke Storage Pile			7.2K ton/day 400K ton/yr	Grandfathered Limit
823	Heat Exchanger Cleaning Pit North [Tank M286]	Water Wash		10,000K gal/yr	Grandfathered Limit
824	Heat Exchanger Cleaning Pit South [Tank M287]	Water Wash and Diesel		1,008K gal/yr	Grandfathered Limit
943	Tank A-691 Safety Flare Natural Gas, Butane (Process Gas) Abates: S691 See Note 2.			2,500,000 mmbtu/hr 60,000,000 mmbtu/day	Grandfathered Limit
944	North Steam Flare Natural Gas, Vent Gas Abates: See Note 1			2,700 mmbtu/hr 64,800 mmbtu/day	Grandfathered Limit
945	South Steam Flare Natural Gas, Vent Gas Abates: See Note 1			2,700 mmbtu/hr 64,800 mmbtu/day	Grandfathered Limit

Table II A1C – Permitted Sources - Grandfathered

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
952	Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4023 Natural Gas Abated by A-952 NSCR	Ingersoll-Rand spark ignition 4 stroke, Rich Burn Engine	SVG-8	9580 in ³ displacement, 300 HP 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
953	Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4024 Natural Gas Abated by A-953 NSCR	Ingersoll-Rand spark ignition 4 stroke, Rich Burn Engine	SVG-8	9580 in ³ displacement, 300 HP 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
954	Internal Combustion Engine No. 1 Gas Plant Vapor Compressor No. 4025 Natural Gas Abated by A-954 NSCR	Ingersoll-Rand spark ignition 4 stroke, Rich Burn Engine	SVG-8	9580 in ³ displacement, 300 HP 3 mmbtu/hr 26,280 mmbtu/yr	Grandfathered Limit
1012	West Air Flare Process Gas, Natural Gas Abates: See Note 1			2,755 mmbtu/hr 66,120 mmbtu/day	Grandfathered Limit
1101	Subsurface Aerator System [at Tract 3 West Canal]			4.56 mmscf/day 1,664.4 mmscf/yr	Grandfathered Limit
1102	Subsurface Aerator System [at Tract 3 North Pond]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1103	Subsurface Aerator System [at Clean Canal Forebay]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit
1104	Subsurface Aeration System [at Oily Canal]			1.152 mmscf/day 420.5 mmscf/yr	Grandfathered Limit

NOTE 1 – THE MAIN HYDROCARBON FLARES THAT REFERENCE THIS NOTE ARE OPERATED IN ACCORDANCE WITH THE FLARE MINIMIZATION PLAN REQUIRED BY REGULATION 12, RULE 12. UNDER NORMAL OPERATION, WASTE GAS FROM MOST PROCESS UNITS IS DISCHARGED INTO THE FLARE GAS RECOVERY HEADER WHERE IT IS GATHERED, COMPRESSED, AND DISCHARGED INTO THE FACILITY'S 100# FUEL GAS SYSTEM. IN THE 100# FUEL GAS SYSTEM, THE RECOVERED WASTE GAS IS TREATED AND COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. UNDER NON-ROUTINE OPERATION, WHEN THE QUANTITY OF THE WASTE GAS EXCEEDS THE CAPACITY OF THE FLARE GAS RECOVERY COMPRESSORS, OR WHEN THERE IS AN EVENT THAT AUTOMATICALLY OR MANUALLY VENTS EXCESS PROCESS GAS, THE GAS THAT IS NOT RECOVERED TO THE 100# FUEL GAS SYSTEM IS COMBUSTED IN THE FLARES. SOURCES THAT ARE VENTED TO THE FLARE GAS RECOVERY SYSTEM ARE PROCESS UNITS S850, S1002, S1003, S1005, S1007, S1008, S1038, S1105, S1526, TANKS S656 AND S658, AND THE AIR PRODUCTS No. 2 HYDROGEN PLANT. DURING NORMAL OPERATION, THE EMISSIONS FROM MANY OTHER SOURCES SUCH AS TANKS, OIL WATER SEPARATORS, AND PRODUCT LOADING OPERATIONS ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM AND ROUTED TO THE FACILITY'S 100# FUEL GAS SYSTEM WHERE THEY ARE COMBUSTED AT THE FUEL GAS COMBUSTION DEVICES IN THAT SYSTEM. SOURCES THAT ARE VENTED TO THE A-14 VAPOR RECOVERY SYSTEM ARE S532, S819, S1007, S1008, S1025, S1526, TANKS S134, S137, S318, S323, S603, S613, S656, S658, S699, S714, AND S1496. THESE FLARES ARE ABATEMENT DEVICES AS DEFINED IN REGULATION 1-240. HOWEVER, THESE FLARES ARE NOT CONTROL DEVICES THAT ARE USED TO MEET THE REQUIREMENTS OF 40 CFR 60, 40 CFR 61, OR 40 CFR 63 (NSPS, NESHAPS OR MACT) SINCE WASTE GAS IS COMBUSTED IN THE FLARES ONLY DURING NON-ROUTINE OPERATION.

NOTE 2 – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK S691) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM A21. A21 FUNCTIONS AS A FLARE GAS RECOVERY SYSTEM AND CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

Table II A2 – Permitted Sources**Plant #B2759 – Tesoro Refining and Marketing Company – Amorco Terminal**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301.

Throughput limits function as reporting thresholds as described in Standard Conditions J.1.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
54	Amorco Wharf Slop Tank	Horizontal vessel		840 gal 375K bbl/yr	Grandfathered Limit
57	Off-shore/Wharf Diesel Fire-Water Pump	Caterpillar	3412DIT	37.6 gal/hr, 700 hp, 34 hrs/yr	Firm Limit Condition #22851 part 1 New Source Review
58	Amorco Wharf Emergency Standby IC Engine Generator Set; Diesel Fired	Caterpillar	C9,ATAAC	15.4 gal/hr, 312 hp, 50 hrs/yr	Firm Limit Condition #23811 part 1 New Source Review

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658	BAAQMD 1-301	none	nuisance odors
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658	BAAQMD 8-5-306 SIP 8-5-306	None – 8-5-502 exempts source tests for fuel gas system	VOC: 95% control
12	Vapor Recovery at Foul Water Strippers, Compress/Condense/Absorb	S656, S658	Condition 10696, Part 1	None	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System, Compress/Condense/Absorb	S126, S127, S134, S137, S323, S532, S603, S613, S699, S714, S819, S1025, S1496, S32103	BAAQMD 1-301	none	nuisance odors
14	Vapor Recovery System to No. 1 Gas Plant and 100# Refinery Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S603, S714, S1496,	BAAQMD 8-5-306 SIP 8-5-306	None – 8-5-502 exempts source tests for fuel gas system	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S134	BAAQMD Condition #20923, part 3	none	VOC: 98.5% control
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S532	BAAQMD 8-8-301.3 SIP 8-8-301.3	none	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S699	BAAQMD 8-8-305.2 SIP 8-8-305.2	none	VOC: 70% control

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S819	BAAQMD 8-8-302.3 SIP 8-8-302.3	none	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S134, S137, S323, S656, S658, S1496	40 CFR 60.112b(a)(3) (ii)	none	VOC: 95% control
14	Vapor Recovery System, to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S32103	BAAQMD Condition # 11609, parts E1, E2	none	VOC: 95% control
14	Vapor Recovery System to No. 1 Gas Plant and 100# Refinery Fuel Gas System Compress/Condense/Absorb	S323	BAAQMD Condition # 13605, part 3	None	VOC: 99.5% abatement
14	Vapor Recovery System to No. 1 Gas Plant and 40# Refinery Fuel Gas System Compress/Condense/Absorb	S1496	BAAQMD Condition #21100, part 2	None	VOC: 99.5% destruction efficiency
14	Vapor Recovery System, to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S1025	BAAQMD 8-33-301 and BAAQMD Condition #21849, Part 11(a)	None	POC < 0.04 lb POC per 1000 gallons of material loaded
14	Vapor Recovery System to No. 1 Gas Plant and 100# Fuel Gas System Compress/Condense/Absorb	S1560/ A1560	BAAQMD Condition 26406, Parts 4 and 6	Operate at all times when loading a regulated material	VOC: 98.5% control
21	Butane Tank Vapor Recovery System	S691	BAAQMD 8-5-306 SIP 8-5-306	none	VOC 95 % control

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973	BAAQMD Condition # 8077, part A2A	Ammonia injection not required during startup/ shutdown periods: 72 hrs per SU or SD; 432 hrs/12 months	NOx: 130.5 lb/rolling 24 hours;
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973	BAAQMD Condition # 8077, part A2A	Ammonia injection not required during startup/ shutdown periods: 72 hrs per SU or SD; 432 hrs/12 months	NOx: 2,628 lb/rolling 12 months;
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973	BAAQMD Condition # 8077, part A2B	Requirement to begin ammonia injection during startup of S973	A31 Inlet Temperature: 530 F
31	No. 3 HDS Selective Catalytic Reduction (SCR) Unit	S973	BAAQMD Condition # 8077, part B7A	none	NOx: 40 ppmv, dry, corrected to 3% oxygen, 8 hour average
39	Thermal Oxidizer, Direct Flame Afterburner	S819	BAAQMD 8-8-302.3 SIP 8-8-302.3		95% control
39	Thermal Oxidizer, Direct Flame Afterburner	S1026	BAAQMD 8-8-307.2 SIP 8-8-307.2		70% control
39	Thermal Oxidizer, Direct Flame Afterburner	S819, S1026	BAAQMD Condition # 7406, part B5A	A39 operating temperature \geq 1350 degrees F	NMHC: 10 ppmv, calculated as methane (rolling one-hour average)
39	Thermal Oxidizer, Direct Flame Afterburner	S819, S1026	BAAQMD Condition # 7406, part B7	A39 operating temperature \geq 1350 degrees F	H2S: 1 ppm
40	Thermal Oxidizer, Electric, Tract 6 Pump Seals	S32103	BAAQMD Condition # 11609, part A1	Oxidizer operating temperature \geq 1400 degrees F	VOC: 95% control
42	Thermal Oxidizer, Electric, Hydrocracker Pump Seals	S32103	BAAQMD Condition # 11609, part C1	Oxidizer operating temperature \geq 1400 degrees F	VOC: 95% control
43	Thermal Oxidizer, Electric, Tract 3 Pump Seals	S32103	BAAQMD Condition # 11609, part D1	Oxidizer operating temperature \geq 1400 degrees F	VOC: 95% control

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
714	Caustic Scrubber	S714	BAAQMD 1-301	none	nuisance odors
952	Non-Selective Catalytic Reduction (NSCR) System	S952	SIP 9-8-301.1	none	NOx: 56 ppmv corrected to 15% oxygen
952	Non-Selective Catalytic Reduction (NSCR) System	S952	BAAQMD 9-8-301.1	none	NOx: 25 ppmv corrected to 15% oxygen
952	Non-Selective Catalytic Reduction (NSCR) System	S952	BAAQMD 9-8-301.3	none	CO: 2000 ppmv corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	SIP 9-8-301.1	none	NOx: 56 ppmv corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	BAAQMD 9-8-301.1	none	NOx: 25 ppmv corrected to 15% oxygen
953	Non-Selective Catalytic Reduction (NSCR) System	S953	BAAQMD 9-8-301.3	none	CO: 2000 ppmv corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	SIP 9-8-301.1	none	NOx: 56 ppmv corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	BAAQMD 9-8-301.1	none	NOx: 25 ppmv corrected to 15% oxygen
954	Non-Selective Catalytic Reduction (NSCR) System	S954	BAAQMD 9-8-301.3	none	CO: 2000 ppmv corrected to 15% oxygen
1001	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	BAAQMD 8-5-306 SIP 8-5-306		VOC: 95% control
1002	Carbon Canister, Fixed Volume Portable Tanks	S1489, S1490, and S1491	BAAQMD 8-5-306 SIP 8-5-306		VOC: 95% control
1106	Selective Catalytic Reduction (SCR) System, F72	S1106	BAAQMD Condition #19199, Part H9	none	NOx: 10 ppmv, dry, corrected to 3% oxygen
1511	Hot Oil Heater #1 Selective Catalytic Reduction (SCR) System	S1511	BAAQMD Condition #23129, Part 12		NOx: 7 ppmvd, corrected to 3% O ₂ , 3 hour average

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1511	Hot Oil Heater #1 Selective Catalytic Reduction (SCR) System	S1511	BAAQMD Condition #23129, Part 12a	Startup, Shutdown, Malfunction(≤ 144 hours per consecutive 12 months)	NOx: 50 ppmvd (as NO ₂) corrected to 3% O ₂ , 3 hour average
1512	Hot Oil Heater #2 Selective Catalytic Reduction System (SCR)	S1512	BAAQMD Condition #23129, Part 12		NOx: 7 ppmvd, corrected to 3% O ₂ , 3 hour average
1512	Hot Oil Heater #2 Selective Catalytic Reduction System (SCR)	S1512	BAAQMD Condition #23129, Part 12a	Startup, Shutdown, Malfunction(≤ 144 hours per consecutive 12 months)	NOx: 50 ppmvd (as NO ₂) corrected to 3% O ₂ , 3 hour average
1550	Backup Boiler #1 SCR	S1550	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 384 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O ₂ except for: NOx: 30 ppmvd @ 3% O ₂ during startup and shutdown unabated operation
1551	Backup Boiler #2 SCR	S1551	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 384 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O ₂ except for: NOx: 30 ppmvd @ 3% O ₂ during startup and shutdown unabated operation
1553	Backup Boiler #3 SCR	S1553	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 384 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O ₂ except for: NOx: 30 ppmvd @ 3% O ₂ during startup and shutdown unabated operation
1558	Backup Boiler #4 SCR	S1558	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 384 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O ₂ except for: NOx: 30 ppmvd @ 3% O ₂ during startup and shutdown unabated operation

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1559	Backup Boiler #5 SCR	S1559	BAAQMD Condition 24491, Parts 4 & 7	Operate at all times except for 384 hours per consecutive 12-months (total for all backup boilers) startup and shutdown.	NOx: 7 ppmvd @ 3% O2 except for: NOx: 30 ppmvd @ 3% O2 during startup and shutdown unabated operation
1560	Avon Wharf Berth 1A Vapor Recovery System	S1560	BAAQMD Condition 26406, Parts 4 and 6	Operate at all times when loading a regulated material	VOC: 98.5% control
1583	H2S Treatment System, knockout drum followed by 2 caustic scrubbers, to be used interchangeably	S1517, during turnaround of S1526	BAAQMD Conditions # 23129, parts 59 through 70	None	Maximum Capacity of 10 MMSCFD
1584	Trailer Mounted Combustor, Natural Gas	S126, S127, S134, S137, S323, S532, S603, S613, S656, S658, S699, S714, S819, S1025, S1560	BAAQMD Condition 27543, Parts 1 and 2	42.3 MMBtu/hr Capacity Operate at all times when fuel gas users are all out of service Flow ≤ 55,000 scfm	VOC: 99.5% control
1584	Trailer Mounted Combustor, Natural Gas	S126, S127, S134, S137, S323, S532, S603, S613, S656, S658, S699, S714, S819, S1025, S1560	BAAQMD Condition 27543, Part 4	Temperature ≥ 2,100 degrees F	VOC: 99.5% control
2000	Sour Water Stripper Off-Gas Thermal Oxidizer, Natural Gas	S1600, A2002	BAAQMD Condition 27591, Part 1	Flow ≤ 140 dscfm	Operate at all times
2000	Sour Water Stripper Off-Gas Thermal Oxidizer, Natural Gas	S1600, A2002	BAAQMD Condition 27591, Part 2	1.91 MM Btu/hr Capacity	VOC: % destruction or 10 ppmv
2000	Sour Water Stripper Off-Gas Thermal Oxidizer, Natural Gas	S1600, A2002	BAAQMD Condition 27591, Part 3	1.91 MM Btu/hr Capacity	Ammonia: 99.9% destruction efficiency

Table II B – Abatement Devices

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
2000	Sour Water Stripper Off-Gas Thermal Oxidizer, Natural Gas	S1600, A2002	BAAQMD Condition 27591, Part 4	Temperature \geq 2,100 degrees F	VOC: % destruction or 10 ppmv Ammonia: 99.9% destruction efficiency
2001	H2S Adsorption Vessels #1 (No. 5 Gas Plant)	S1526	BAAQMD Condition 27592, Part 1	Flow \leq 28,000 scfm	Operate at all times
2002	H2S Adsorption Vessels #2 (Sour Water Stripper)	S1600	BAAQMD Condition 27593, Parts 1 & 5	Flow \leq 140 dscfm	Operate at all times H2S: 250 ppmv (measured as H2S)
S854	East Air Flare	See Note 1 for Table II-A1	See Table IV-C.2.1	1,900MM Btu/hr Capacity	Typically 98% destruction efficiency
S943	Butane Tank S691 Safety Flare	Backup abatement for A21, which abates S691	BAAQMD 8-5-306 SIP 8-5-306	none	VOC: 95% control
S944	North Steam Flare	See Note 1 for Table II-A1	See Table IV-C.2.3	2,700MM Btu/hr Capacity	Typically 98% destruction efficiency
S945	South Steam Flare	See Note 1 for Table II-A1	See Table IV-C.2.3	2,700MM Btu/hr Capacity	Typically 98% destruction efficiency
S992	Emergency Flare	See Note 1 for Table II-A1	See Table IV-C.2.1	13,200MM Btu/hr Capacity	Typically 98% destruction efficiency
S1012	West Air Flare	See Note 1 for Table II-A1	See Table IV-C.2.1	2,755MM Btu/hr Capacity	Typically 98% destruction efficiency
S1517	Coker Flare	See Note 1 for Table II-A1	BAAQMD Condition 23129, Part 52	24,500MM Btu/hr Capacity	POC: 98.5% destruction efficiency (mass basis)

Table II C1 – Sources Exempt From Permitting

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
3	Tank A-03	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
126	LPG Truck Loading Rack	Bulk plant (truck/rail)	9 pumps Bottom submerged fill	1460K bbl/yr	2-1-123.3.1 (liquefied organic gases) A14 Vapor Recovery
127	LPG Tank Car Loading Rack	Bulk plant (truck/rail)	Bottom submerged fill	1460K bbl/yr	2-1-123.3.1 (liquefied organic gases) A14 Vapor Recovery
258	Tank A-258	Fixed roof		84K gal	2-1-123.3.2 (gasoil)
270	Tank A-270	Fixed roof		3,167K gal	2-1-123.3.2 (diesel)
272	Tank A-272	Fixed roof		3,360K gal	2-1-123.3.2 (diesel)
274	Tank A-274	Fixed roof		3,170K gal	2-1-123.3.2 (diesel)
429	Tank A-429	Fixed roof		3,318K gal	2-1-123.3.3 (distillate/gas oil)
467	Tank A-467	Fixed roof		1000 bbl 42 Kgal	2-1-123.3.2 (caustic tank)
494	Tank A-494	Fixed roof		105K gal	2-1-123.3.3 (turbine oil)
514	Tank A-514	Sphere, LPG		508K gal	2-1-123.3.1 (liquefied organic gases - LPG)
515	Tank A-515	Sphere, LPG		103K gal	2-1-123.3.1 (liquefied organic gases - LPG)
516	Tank A-516	Sphere, LPG		80K gal	2-1-123.3.1 (liquefied organic gases - LPG)
517	Tank A-517, Renewable Feedstock	Fixed roof		3,154K gal	2-1-123.3.6 (tallow or vegetable oils)
554	Tank A-554	Sphere, LPG		176K gal	2-1-123.3.1 (liquefied organic gases - LPG)
572	Tank A-572	Sphere, LPG		176K gal	2-1-123.3.1 (liquefied organic gases - LPG)
585	Tank A-585	Fixed roof		420K gal	2-1-123.3.3 (distillate/gas oil)
599	Tank A-599	Sphere, LPG		21K gal	2-1-123.3.1 (liquefied organic gases - LPG)
604	Tank A-604	Fixed roof		21K gal	2-1-123.3.2 (distillate)

Table II C1 – Sources Exempt From Permitting

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
618	Tank A-618	Sphere, LPG		38K gal	2-1-123.3.1 (liquefied organic gases - LPG)
620	Tank A-620, Renewable Feedstock	Fixed roof		3,360K gal	2-1-123.3.6 (tallow or vegetable oils)
622	Tank A-622, Renewable Diesel	Fixed roof		3360K gal	2-1-123.3.2 (diesel)
646	Tank A-646, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
647	Tank A-647, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
648	Tank A-648, Renewable Propane	Horizontal pressure tank		42K gal	2-1-123.3.1 (liquefied organic gases - propane)
649	Tank A-649, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
666	Tank A-666, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
667	Tank A-667, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
668	Tank A-668, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
669	Tank A-669, Renewable Propane	Horizontal pressure tank		42K gal	2-1-123.3.1 (liquefied organic gases - propane)
670	Tank A-670, Renewable Propane	Horizontal pressure tank		45K gal	2-1-123.3.1 (liquefied organic gases - propane)
691	Tank A-691	Dome Roof		9,328.2K gal	2-1-123.3.1(liquefied organic gases - butane)
749	Coker Pile Loader Diesel Tank	Fixed Roof		8400 gal	2-1-123.3.2 (diesel)
807	Coker Blowdown Drum	Fixed Roof with Tower Vent		1.0 bbl/day	2-1-123.2 (aqueous solution < 1% organic)
872	Tank A-872	External Floating Roof		10,192K gal	2-1-123.3.3 and 2-1-123.3.10 (low sulfur vacuum gas oil)
873	Tank A-895, Renewable Feedstock	Fixed Roof		4,074K gal	2-1-123.3.6 (tallow or vegetable oils)
1463	Tank A-867, Renewable Feedstock	External Floating Roof		10,080K gal	2-1-123.3.6 (tallow or vegetable oils)

Table II C1 – Sources Exempt From Permitting

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1468	Tank A-877, Spent Sulfidic Caustic	Fixed roof		1,008K gal	2-1-123.2 (Aqueous solutions)
1505	Tank A-777	Fixed Roof		250 gal	2-1-123.3.2 (red dye for diesel)
1554	Tank A-943, Renewable Feedstock (Clean)	Fixed roof		65,746 bbl	2-1-123.3.6 (tallow or vegetable oils)
1567	Avon Berth 1A East Diesel Tank	Fixed roof		1000 gal	2-1-123.3.2 (diesel)
1568	Avon Berth 1A West Diesel Tank	Fixed roof		1000 gal	2-1-123.3.2 (diesel)
1601	Tank T-895, Aqueous Ammonia Tank	Fixed roof		300 bbl	2-1-123.2 (aqueous solution < 1% organic)
2002	Tank TK-1048, Antifoam Tank	Fixed roof		1,000 gal	2-1-123.2 (aqueous solution < 1% organic)
2004	Tank TK-845, Sodium Hypochlorite Tank	Fixed roof		1,861 gal	2-1-123.2 (aqueous solution < 1% organic)
2005	Tank MTK-10162, Demulsifier Tank	Fixed roof		1,800 gal	2-1-123.2 (aqueous solution < 1% organic)
2006	Tank TK-958, Fresh Caustic Storage Tank	Fixed roof		7,715 bbl	2-1-123.2 (aqueous solution < 1% organic)
2007	Tank A-905, R99 Renewable Diesel Storage Tank	Fixed roof		131,000 bbl	2-1-123.3.2 (diesel)
2008	Tank A-933, FRT, R99 Renewable Diesel Storage Tank	Fixed roof		131,000 bbl	2-1-123.3.2 (diesel)
2009	Renewable Feedstock Unloading Rack	Unloading Rack	8 unloading arms; 2 pumps	17,520,000 bbl/yr	2-1-123.3.6 (tallow or vegetable oils)
2011	Tank A-981, Fossil Diesel Storage Tank	Fixed roof		190 bbl	2-1-123.3.2 (diesel)
2012	Tank A-961, Fossil Diesel Storage Tank	Fixed roof		190 bbl	2-1-123.3.2 (diesel)
2014	Sodium Sulfide Tank No. 1	Fixed roof		208 bbl	2-1-123.2 (aqueous solution < 1% organic)
2015	Sodium Sulfide Tank No. 2	Fixed roof		208 bbl	2-1-123.2 (aqueous solution < 1% organic)

Table II C1 – Sources Exempt From Permitting

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
2016	Neutralization Tank T-796	Fixed roof		23,600 gal	2-1-123.2 (aqueous solution < 1% organic)
2017	Neutralization Tank T-797	Fixed roof		23,600 gal	2-1-123.2 (aqueous solution < 1% organic)
2018	Tank TK-1036, Sulfuric Acid Tank	Fixed roof		2,100 gal	2-1-123.2.1 (sulfuric acid with an acid strength less than 99% by weight)
2019	Tank TK-10193, Coagulant Tank	Fixed roof		8,700 gal	2-1-103 (no organics)
2022	Tank TK-10198, Urea Storage Tank	Fixed roof		8,700 gal	2-1-123.2 (aqueous solution < 1% organic)
2024	Tank TK-1035, Phosphoric Acid Tank	Fixed roof		3,000 gal	2-1-123.2.2 (phosphoric acid with an acid strength less than 99% by weight)
2026	Tank NV-406, Weak Acid Tank Storage Tank	Fixed roof		74,850 gal	2-1-123.2 (aqueous solution < 1% organic)
2028	Tank A-932, R99 Renewable Diesel Storage Tank	Fixed roof		96,000 bbl	2-1-123.3.2 (diesel)
32120	Tank A-529, Sour Water	Fixed roof		3,000 kbbbl	2-1-123.2 (aqueous solution < 1% organic)
32121	Tank A-530, Sour Water	Fixed roof		3,000 kbbbl	2-1-123.2 (aqueous solution < 1% organic)
32122	Tank A-543, Fresh Caustic	Fixed roof		10,000 bbl	2-1-123.2 (aqueous solution < 1% organic)
32123	Tank A-673, Fresh Caustic	Fixed roof		1000 bbl	2-1-123.2 (aqueous solution < 1% organic)
32124	Tank A-674, Sulfuric Acid	Fixed roof		654 bbl	2-1-123.2.1 (sulfuric acid with an acid strength less than 99% by weight)
32125	Tank A-747, Sulfuric Acid	Fixed roof		4,900 bbl	2-1-123.2.1 (sulfuric acid with an acid strength less than 99% by weight)
32126	Tank A-770, MDEA	Fixed roof		275 bbl	2-1-123.2 (aqueous solution < 1% organic)
32127	Tank A-778	Fixed roof		12,000 gal	Gasoline additive

Table II C1 – Sources Exempt From Permitting

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
32128	Tank A-754	Fixed Roof		51,700 gal	2-1-123.2 (Aqueous solutions)
32129	Tank A-755	Fixed Roof		51,700 gal	2-1-123.2 (Aqueous solutions)
32132	Tank A-933	Fixed Roof		131,000 bbl	2-1-123.3.2 (diesel)
32133	Tank A-980, Sulfuric Acid	Fixed roof		4,900 bbl	2-1-123.2.1 (sulfuric acid with an acid strength less than 99% by weight)
32134	Tank A-982	Horizontal Cylindrical Tank		40,000 gal	2-1-123.3.2 (diesel)
32135	Tank A-983	Horizontal Cylindrical Tank		40,000 gal	2-1-123.3.2 (diesel)

Table II C2 – Sources Exempt From Permitting

Plant #B2759 - Tesoro Refining and Marketing Company – Amorco Terminal

The following sources have been determined to be exempt from the requirements of BAAQMD Regulation 2, Permits and have applicable requirement(s) listed in Section IV.

S-#	Description	Make or Type	Model	Capacity	Comment (Exemption Citation)
55	Amorco Terminal, Renewable Diesel Loading Only			124,800 bbl/day 9,855K bbl/12 consecutive months	2-1-123.3.2 (diesel) Firm Limit Condition #22455, Part 8

Table II D – Sources Owned/Operated by Contractors

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Plant #B2759 - Tesoro Refining and Marketing Company – Amorco Terminal

The following sources have been determined to be operating at this Major Facility for longer than a 12-month period but are not owned or operated by the owner/operator of the Major Facility.

Site	Description	Owner	Plant #	Service	Comment
B2758	S-1 Sludge Centrifuge, 60 tons/hr	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-2 Fixed Roof Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-3 Exempt Fixed Roof Water Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-4 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-5 Exempt Fixed Roof Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	
B2758	S-6 Exempt Fixed Roof Diesel Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	
B2758	S-7 Exempt Fixed Roof Oil Tank, 40,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	
B2758	S-8 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-9 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-10 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-11 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-12 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-13 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-14 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-15 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-16 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-17 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2758	S-18 Fixed Roof Crude Oil Tank, 20,000 gal	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment

Table II D – Sources Owned/Operated by Contractors

Plant #B2758 - Tesoro Refining and Marketing Company - Martinez Refinery

Plant #B2759 - Tesoro Refining and Marketing Company – Amorco Terminal

The following sources have been determined to be operating at this Major Facility for longer than a 12-month period but are not owned or operated by the owner/operator of the Major Facility.

Site	Description	Owner	Plant #	Service	Comment
B2758	S-19 Sludge Centrifuge, 10 tons/hr	Clean Harbors	21432	Sludge Dewatering and Treatment	Abated Equipment
B2759	S-19 Tank T-3 Influent Storage Tank	Envent	16338	Oil/Water Separation	Abated Portable Equipment
B2759	S-20 Tank T-1 Influent Oil Water Separation Tank	Envent	16338	Oil/Water Separation	Abated Portable Equipment
B2759	S-2 Air Stripper	Envent	12342	Groundwater Treatment	

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 versions of the rules in the SIP. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District’s revision of the regulation.

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
Consent Decree	Tesoro is subject to and must comply with all applicable requirements of federal consent decree <i>The United States of America, the State of Alaska, the State of Hawaii, and the Northwest Clean Air Agency v. Tesoro Refining & Marketing Company LLC, Tesoro Alaska Company LLC, Tesoro Logistics L.P., and Par Hawaii Refining, LLC, Civil Action No. SA-16-cv-00722</i> , Entered September 28, 2016, in the United States District Court for the Western District of Texas.	Y

Table III
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)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (12/15/2021)	N
SIP Regulation 2, Rule 1	General Requirements (05/21/2018)	Y
BAAQMD Regulation 2, Rule 2	New Source Review (12/06/2017)	Y
BAAQMD Regulation 2, Rule 4	Emissions Banking (12/06/2017)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (12/15/2021)	N
BAAQMD Regulation 2, Rule 6	Major Facility Review (12/06/2017)	N
SIP Regulation 2, Rule 6	Major Facility Review (06/23/1995)	Y
BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (06/15/2005)	N
BAAQMD Regulation 3	Fees (06/15/2022)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (03/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (08/06/1990)	Y
BAAQMD Regulation 5	Open Burning (11/20/2019)	N
SIP Regulation 5	Open Burning (09/04/1998)	Y
BAAQMD Regulation 6	Particulate Matter, Common Definitions and Test Methods (08/01/2018)	N
BAAQMD Regulation 6, Rule 1	Particulate Matter, General Requirements (08/1/2018)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)	Y
BAAQMD Regulation 7	Odorous Substances (03/17/1982)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (11/03/2021)	N
SIP Regulation 8, Rule 1	Organic Compounds, General Provisions (3/22/1995)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (05/04/2022)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (03/22/1995)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (07/01/2009)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (01/02/2004)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/2002)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/1995)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (03/22/1995)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (07/17/2002)	N

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (02/26/2002)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/07/1998)	N
BAAQMD Regulation 11, Rule 18	Reduction of Risk from Air Toxic Emissions at Existing Facility (11/15/2017)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (07/11/1990)	Y
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (09/02/1981)	N
BAAQMD Regulation 12, Rule 15	Refining Emissions Tracking (11/03/2021)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (05/19/2011)	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (11/30/2018)	N
40 CFR 61 Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (07/20/2004)	Y
40 CFR 82 Subpart F	Protection of Stratospheric Ozone; Recycling and Emissions Reduction (04/10/2020)	Y
40 CFR 82 Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (03/17/2020)	Y

IV SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

Source numbers that reference (B2759) are located at the Amorc Terminal.

Section A Sitewide (Refinery, Amorc and Fenceline Monitoring)

**Table IV – A.1
 Source-specific Applicable Requirements
 Facility B2758 - Refinery**

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)		
1-510	Area Monitoring	Y	
1-521	Monitoring may be required.	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance	Y	
1-544	Monthly Summary	Y	
1-602	Area and Continuous Emissions Monitoring	Y	

Table IV – A.1
Source-specific Applicable Requirements

Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2 Rule 1	Permits - General Requirements (12/15/2021)		
2-1-429	Federal Emissions Statement	N	
BAAQMD Regulation 8 Rule 5	Organic Compounds - Storage of Organic Liquids (11/03/2021)		
8-5-110	Exemptions	Y	
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	N	
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device	N	
8-5-331	Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-501	Records	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.2	Source Test Requirements; Tank degassing and cleaning abatement devices	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

Table IV – A.1
Source-specific Applicable Requirements
Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
SIP Regulation 8 Rule 5	Organic Compounds - Storage of Organic Liquids (06/05/2003)		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-404	Certification	Y	
8-5-501	Records	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	Organic Compounds - Wastewater Collection and Separation Systems (11/03/2021)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
8-8-304	Sludge Dewatering Unit	N	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Manual of Procedures: Determination of Emissions	N	
8-8-603	Manual of Procedures: Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds - Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
8-8-304	Sludge-dewatering Unit	Y	
8-8-602	Manual of Procedures: Determination of Emissions	Y	
8-8-603	Manual of Procedures: Inspection Procedures	Y	

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Source-specific Applicable Requirements
Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 10	Organic Compounds – Process Vessel Depressurization (11/03/2021)		
8-10-101	Description	N	
8-10-110	Exemption: Storage Vessels	N	
8-10-110.1	Exemption: Storage Vessels	N	
8-10-301	Depressurization Control Options	N	
8-10-302	Opening of Process Vessels	N	
8-10-302.1	organic compounds cannot exceed 10,000 ppm (methane) prior to release to atmosphere	N	
8-10-302.2	Organic compound concentration of a refinery process vessel may exceed 10,000 ppm prior to release to atmosphere provided total number of such vessels during 5-year period does not exceed 10%	N	
8-10-401	Turnaround Records. Annual report due February 1 of each year with initial report of process vessels due 4/1/2004.	N	
8-10-501	Monitoring prior to and during process vessel opening	N	
8-10-502	Concentration measurement using EPA Method 21	N	
8-10-503	Recordkeeping	N	
8-10-601	Monitoring Procedures	N	
SIP Regulation 8 Rule 10	Organic Compounds – Process Vessel Depressurization (10/03/1984)		
8-10-301	Process Vessel Depressurizing.	Y	
8-10-301.1	Recovery to the fuel gas system	Y	
8-10-301.2	Combustion at a firebox or incinerator	Y	
8-10-301.3	Combustion at a flare	Y	
8-10-301.4	Containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records.	Y	
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/2002)		
8-16-111	Exemption, Wipe Cleaning	Y	
8-16-501.3	Solvent Records – Wipe Cleaning	Y	
BAAQMD Regulation 8 Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/2005)		
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-402	Reporting, Excavation of Contaminated Soil	Y	
8-40-403	Reporting, Excavation of Contaminated Soil	Y	
8-40-404	Reporting, Contaminated Soil Excavation During Organic Liquid Service Pipeline Leak Repairs	Y	
8-40-405	Reporting, Contaminated Soil Excavations Unrelated to Underground Storage Tank Activities	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-602	Measurement of Organic Content	Y	
8-40-604	Measurement of Organic Concentration	Y	
8-40-605	Analysis of Samples Initial Boiling Point	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (11/03/2021)		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-313	Sulfur Removal Operations at Refineries (processing more than 20,000 bbl/day of crude oil alternative feedstock)	N	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	N	
9-1-501	Area Monitoring Requirements	Y	

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Source-specific Applicable Requirements
Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-604	Ground Level Monitoring	Y	
SIP Regulation 9 Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide Emissions Limitations (06/08/1999)		
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants - Hydrogen Sulfide (10/06/1999)		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements (Applies only when ground level monitors are not operating or are out of compliance.)	N	
9-2-601	Ground Level Monitoring	N	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources – incorporated by reference (02/16/2000)		
10-1	Subpart A – General Provisions (12/20/1995)	Y	
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 12/04/2003)	Y	
40 CFR 60 Subpart A	NSPS - General Provisions (05/03/2023)		
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	

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Source-specific Applicable Requirements
Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR 60 Subpart Kb	NSPS – 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. (01/19/2021)		
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	
60.113b(b)(2)	Primary seal gap standards	Y	
60.113b(b)(3)	Secondary seal gap standards	Y	
60.113b(b)(4)	Seal gap measurement methods	Y	
40 CFR 61 Subpart A	NESHAPS, General Provisions (09/24/2018)		
61.01	Lists of Pollutants and Applicability of Part 61	Y	
61.02	Definitions	Y	

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Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.03	Units and Abbreviations	Y	
61.04	Address	Y	
61.05	Prohibited Activities	Y	
61.06	Determination of Construction or Modification	Y	
61.07	Application for Approval of Construction or Modification	Y	
61.08	Approval of construction or modification	Y	
61.09	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	
61.12	Compliance with Standards and Maintenance Requirements	Y	
61.13	Emission Tests and Waiver of Emission Tests	Y	
61.14	Monitoring Reports	Y	
61.15	Modification	Y	
61.18	Incorporation by reference	Y	
61.19	Circumvention	Y	
40 CFR 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for Treat to 6 (6BQ) [61.342(e)] facility		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Applicability: Exemption from Subpart FF for emissions routed to a fuel gas system	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(a)	Standards: Definition of total annual benzene (TAB) & requirements to calculate	Y	
61.342(a)(2)	Standards: TAB Calculation – Material Sold	Y	
61.342(a)(3)	Standards: TAB Calculation – Remediation Waste	Y	
61.342(a)(4)	Standards: TAB Calculation – Determination Location	Y	
61.342(b)	Standards: General; Facility with TAB > 10Mg/year compliance dates	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	

Table IV – A.1
Source-specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	
61.342(e)(2)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat aqueous waste (flow-weighted annual average water content of 10% or more by volume) per 61.342(e)(2).	Y	
61.342(e)(2)(i)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Benzene content of aqueous waste must be equal to or less than 6.0 Mg/yr (6.6 ton/yr), as determined in 61.355(k).	Y	
61.342(e)(2)(ii)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Determine 61.342(e)(2) benzene quantity [TBQ] per 61.355(k).	Y	
61.343(a)	Standards: Tanks	Y	
61.343(a)(1)	Standards: Tanks: Fixed roof with closed vent routed to control device	Y	
61.343(a)(1)(i)	Standards: Tanks: Fixed roof requirements	Y	
61.343(a)(1)(i)(A)	Standards: Tanks: Fixed roof and openings: No detectable emissions	Y	
61.343(a)(1)(i)(B)	Standards: Tanks: Fixed roof requirements; openings closed and sealed except when in use	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed vent system and control device: design and operate per 61.349	Y	
61.343(b)	Standards: Tanks: Alternative standards for certain fixed roof tanks storing non-aqueous wastes (low vapor pressure or small tanks)	Y	
61.343(c)	Standards: Tanks: Quarterly Visual Inspection	Y	
61.343(d)	Standards: Tanks: Repairs	Y	
61.345(a)	Standards: Containers	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.345(a)(1)	Standards: Containers - Covers	Y	
61.345(a)(1)(i)	Standards: Containers - No detectable emissions	Y	
61.345(a)(1)(ii)	Standards: Containers - Openings closed and sealed except when in use	Y	
61.345(a)(2)	Standards: Containers - Waste Transfer	Y	
61.345(b)	Standards: Containers - Quarterly visual inspection	Y	
61.345(c)	Standards: Containers - Repairs	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.353	Alternative means of emission limitation	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	
61.355(a)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB)	Y	
61.355(a)(1)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); aqueous wastes	Y	
61.355(a)(1)(i)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report; Annual Waste Quantity Determination	Y	
61.355(a)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report; Annual Average Benzene Determination	Y	
61.355(a)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: For 61.355(d)(2) Annual Report; Annual Benzene Quantity Calculation	Y	
61.355(a)(2)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); TAB Calculation	Y	
61.355(a)(3)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); If the TAB is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner/operator shall comply with 61.342(c), (d), or (e).	Y	
61.355(a)(6)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); Turnaround Waste in TAB	Y	
61.355(b)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – made at point of generation unless an exception applies	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(b)(1)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination location – Exception: Sour water strippers	Y	
61.355(b)(4)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – Exception: Process Unit Turnaround Waste	Y	
61.355(b)(5)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity from Historical Records	Y	
61.355(b)(6)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Design Capacity	Y	
61.355(b)(7)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Representative Measurements	Y	
61.355(c)	Test Methods, Procedures, and Compliance Provisions: Determine flow-weighted annual average benzene concentration	Y	
61.355(c)(1)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration	Y	
61.355(c)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Made at the point of waste generation except for cases in paragraphs (c)(1)(i)(A) through (D) of this section.	Y	
61.355(c)(1)(i)(A)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Exception: Sour water stripper	Y	
61.355(c)(1)(i)(D)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration – Exception: Process Unit Turnaround wastes	Y	
61.355(c)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Volatilization of benzene by exposure to air shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Mixing or diluting with other wastes or materials shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iv)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Determination made prior to any treatment of waste that removes benzene, except in (c)(1)(i)(A) through (D) of this section	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(c)(1)(v)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: For wastes with multiple phases, provide the weighted-average benzene concentration based on the benzene concentration in each phase and the relative proportion of the phases	Y	
61.355(c)(2)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Knowledge of the Waste	Y	
61.355(c)(3)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Measurements of Benzene Concentration - procedures		
61.355(h)	Test Methods, Procedures, and Compliance Provisions: No detectable emissions test methods	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(1)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in uncontrolled waste streams	Y	
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.355(k)(2)(ii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 2: Determination for wastes discharged from facility	Y	
61.355(k)(2)(iii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 3: Determination for wastes transferred offsite.	Y	
61.355(k)(2)(iv)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine annual waste quantity of controlled wastes using procedures in 61.355(b)(5), (6), or (7)	Y	
61.355(k)(2)(v)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine flow-weighted annual average benzene concentration for controlled wastes using procedures in 61.355(c)(2), or (3)	Y	
61.355(k)(3)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine benzene quantity in waste generated less than one time per year	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(k)(5)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 TBQ calculation method for controlled wastestreams	Y	
61.355(k)(6)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 total TBQ calculation method	Y	
61.355(k)(7)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Eliminate double counting	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping requirements; Retention	Y	
61.356(b)	Recordkeeping requirements; Waste stream records	Y	
61.356(b)(1)	Recordkeeping requirements; Uncontrolled Waste Stream Records	Y	
61.356(b)(4)	Recordkeeping requirements; Treat to 6 (61.342(e)) Waste Stream Records	Y	
61.356(b)(5)	Recordkeeping requirements; Process unit turnaround waste records	Y	
61.356(c)	Recordkeeping requirements; Offsite Waste Transfer Records	Y	
61.356(g)	Recordkeeping Requirements: Visual inspections 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	
61.357	Reporting Requirements	Y	
61.357(a)(1)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: TAB determined in accordance with 61.355(a)	Y	
61.357(a)(2)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Waste stream table (identify as controlled or uncontrolled)	Y	
61.357(a)(3)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data	Y	
61.357(a)(3)(i)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the water content of the waste stream is greater than 10 percent;	Y	
61.357(a)(3)(ii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Y	
61.357(a)(3)(iii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual waste quantity for the waste stream;	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.357(a)(3)(iv)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Range of benzene concentrations for the waste stream;	Y	
61.357(a)(3)(v)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual average flow-weighted benzene concentration for the waste stream; and	Y	
61.357(a)(3)(vi)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual benzene quantity for the waste stream.	Y	
61.357(a)(4)	Reporting Requirements: Annual Benzene Report contents	Y	
61.357(c)	If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), then the owner or operator shall submit to the Administrator a report that updates the information listed in paragraphs (a)(1) through (a)(3) of this section. The report shall be submitted annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. If the information in the annual report required by paragraphs (a)(1) through (a)(3) of this section is not changed in the following year, the owner or operator may submit a statement to that effect.	Y	
61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(2)	Reporting Requirements: Annual Benzene Report – with information specified in 61.357(a)(1), (2), and (3)	Y	
61.357(d)(5)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements	Y	
61.357(d)(5)(i)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – uncontrolled waste streams	Y	
61.357(d)(5)(ii)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – controlled waste streams	Y	
61.357(d)(6)	Reporting Requirements: Quarterly Inspection Verification Report	Y	
61.357(d)(7)	Reporting Requirements: Quarterly Report	Y	
61.357(d)(7)(iv)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.357(d)(7) (iv) (C)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Process Heater Operation Low Temperature	Y	
61.357(d)(7) (iv) (G)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Change in Heater Design	Y	
61.357(d)(8)	Reporting Requirements: Annual Inspection Report – Inspection Summary when detectable emissions detected	Y	
61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
61.357(g)	Reporting Requirements for 61.352 tank seal gaps	Y	
40 CFR 63 Subpart A	NESHAPs for Source Categories - General Provisions (03/11/2021)		
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance test requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.12	State Authority and Delegations	Y	
63.13	Addresses of EPA Regional Offices	Y	
63.14	Incorporation by Reference	Y	
63.15	Availability of Information and confidentiality	Y	
63.16	Performance Track Provisions	Y	
40 CFR 63 Subpart B	NESHAPs for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005)		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(h)	Enhanced monitoring	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.52(h)(i)	MACT emission limitations	Y	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	Y	
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	
40 CFR 63 Subpart R	NESHAPS for Source Categories - Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/04/2020) (Requirements for owner/operators of gasoline trucks loaded at S1025)		
63.425	Test Methods and procedures	Y	
63.425(e)	Annual certification test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.425(f)	Leak detection test (Method 21) – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.425(g)	N2 pressure decay field test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
63.425(h)	Continuous performance pressure decay test – gasoline cargo tanks [conducted by cargo truck owner]	Y	
40 CFR 63 Subpart SS	National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process (07/06/2020) (Requirements for certain continuous process vents, flares, and tanks subject to 40 CFR 63 Subpart FFFF)		
63.983	Closed vent systems	Y	
63.983(a)	(a) Closed vent system equipment and operating requirements. Except for closed vent systems operated and maintained under negative pressure, the provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.	Y	
63.983(a)(1)	(1) Collection of emissions. Each closed vent system shall be designed and operated to collect the regulated material vapors from the emission point, and to route the collected vapors to a control device.	Y	
63.983(a)(2)	(2) Period of operation. Closed vent systems used to comply with the provisions of this subpart shall be operated at all times when emissions are vented to, or collected by, them.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(a)(3)	(3) Bypass monitoring. Except for equipment needed for safety purposes such as pressure relief devices, low leg drains, high point bleeds, analyzer vents, and open-ended valves or lines, the owner or operator shall comply with the provisions of either paragraphs (a)(3)(i) or (ii) of this section for each closed vent system that contains bypass lines that could divert a vent stream to the atmosphere.	Y	
63.983(a)(3)(i)	(i) Properly install, maintain, and operate a flow indicator that is capable of taking periodic readings. Records shall be generated as specified in §63.998(d)(1)(ii)(A). The flow indicator shall be installed at the entrance to any bypass line.	Y	
63.983(a)(3)(ii)	(ii) Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Records shall be generated as specified in §63.998(d)(1)(ii)(B).	Y	
63.983(b)	(b) Closed vent system inspection and monitoring requirements. The provisions of this subpart apply to closed vent systems collecting regulated material from a regulated source. Inspection records shall be generated as specified in §63.998(d)(1)(iii) and (iv) of this section.	Y	
63.983(b)(1)	(1) Except for any closed vent systems that are designated as unsafe or difficult to inspect as provided in paragraphs (b)(2) and (3) of this section, each closed vent system shall be inspected as specified in paragraph (b)(1)(i) or (ii) of this section.	Y	
63.983(b)(1)(i)	(i) If the closed vent system is constructed of hard-piping, the owner or operator shall comply with the requirements specified in paragraphs (b)(1)(i)(A) and (B) of this section.	Y	
63.983(b)(1)(i)(A)	(A) Conduct an initial inspection according to the procedures in paragraph (c) of this section; and	Y	
63.983(b)(1)(i)(B)	(B) Conduct annual inspections for visible, audible, or olfactory indications of leaks.	Y	
63.983(b)(1)(ii)	(ii) If the closed vent system is constructed of ductwork, the owner or operator shall conduct an initial and annual inspection according to the procedures in paragraph (c) of this section.	Y	
63.983(b)(2)	(2) Any parts of the closed vent system that are designated, as described in §63.998(d)(1)(i), as unsafe to inspect are exempt from the inspection requirements of paragraph (b)(1) of this section if the conditions of paragraphs (b)(2)(i) and (ii) of this section are met.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(b)(2)(i)	(i) The owner or operator determines that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with paragraph (b)(1) of this section; and	Y	
63.983(b)(2)(ii)	(ii) The owner or operator has a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times. Inspection is not required more than once annually.	Y	
63.983(b)(3)	(3) Any parts of the closed vent system that are designated, as described in §63.998(d)(1)(i), as difficult-to-inspect are exempt from the inspection requirements of paragraph (b)(1) of this section if the provisions of paragraphs (b)(3)(i) and (ii) of this section apply.	Y	
63.983(b)(3)(i)	(i) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters (7 feet) above a support surface; and	Y	
63.983(b)(3)(ii)	(ii) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years.	Y	
63.983(b)(4)	(4) For each bypass line, the owner or operator shall comply with paragraph (b)(4)(i) or (ii) of this section.	Y	
63.983(b)(4)(i)	(i) If a flow indicator is used, take a reading at least once every 15 minutes.	Y	
63.983(b)(4)(ii)	(ii) If the bypass line valve is secured in the non-diverting position, visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line.	Y	
63.983(c)	(c) Closed vent system inspection procedures. The provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.	Y	
63.983(c)(1)	(1) Each closed vent system subject to this paragraph shall be inspected according to the procedures specified in paragraphs (c)(1)(i) through (vii) of this section.	Y	
63.983(c)(1)(i)	(i) Inspections shall be conducted in accordance with Method 21 of 40 CFR part 60, appendix A, except as specified in this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(c)(1)(i) i)	(ii) Except as provided in (c)(1)(iii) of this section, the detection instrument shall meet the performance criteria of Method 21 of 40 CFR part 60, appendix A, except the instrument response factor criteria in section 3.1.2(a) of Method 21 must be for the representative composition of the process fluid and not of each individual VOC in the stream. For process streams that contain nitrogen, air, water, or other inerts that are not organic HAP or VOC, the representative stream response factor must be determined on an inert-free basis. The response factor may be determined at any concentration for which the monitoring for leaks will be conducted.	Y	
63.983(c)(1)(i) ii)	(iii) If no instrument is available at the plant site that will meet the performance criteria of Method 21 specified in paragraph (c)(1)(ii) of this section, the instrument readings may be adjusted by multiplying by the representative response factor of the process fluid, calculated on an inert-free basis as described in paragraph (c)(1)(ii) of this section.	Y	
63.983(c)(1)(i) v)	(iv) The detection instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21 of 40 CFR part 60, appendix A.	Y	
63.983(c)(1)(v)	(v) Calibration gases shall be as specified in paragraphs (c)(1)(v)(A) through (C) of this section.	Y	
63.983(c)(1)(v)(A)	(A) Zero air (less than 10 parts per million hydrocarbon in air); and	Y	
63.983(c)(1)(v)(B)	(B) Mixtures of methane in air at a concentration less than 10,000 parts per million. A calibration gas other than methane in air may be used if the instrument does not respond to methane or if the instrument does not meet the performance criteria specified in paragraph (c)(1)(ii) of this section. In such cases, the calibration gas may be a mixture of one or more of the compounds to be measured in air.	Y	
63.983(c)(1)(v)(C)	(C) If the detection instrument's design allows for multiple calibration scales, then the lower scale shall be calibrated with a calibration gas that is no higher than 2,500 parts per million.	Y	
63.983(c)(1)(vi)	(vi) An owner or operator may elect to adjust or not adjust instrument readings for background. If an owner or operator elects not to adjust readings for background, all such instrument readings shall be compared directly to 500 parts per million to determine whether there is a leak. If an owner or operator elects to adjust instrument readings for background, the owner or operator shall measure background concentration using the procedures in this section. The owner or operator shall subtract the background reading from the maximum concentration indicated by the instrument.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(c)(1)(vii)	(vii) If the owner or operator elects to adjust for background, the arithmetic difference between the maximum concentration indicated by the instrument and the background level shall be compared with 500 parts per million for determining whether there is a leak.	Y	
63.983(c)(2)	(2) The instrument probe shall be traversed around all potential leak interfaces as described in Method 21 of 40 CFR part 60, appendix A.	Y	
63.983(c)(3)	(3) Except as provided in paragraph (c)(4) of this section, inspections shall be performed when the equipment is in regulated material service, or in use with any other detectable gas or vapor.	Y	
63.983(c)(4)	(4) Inspections of the closed vent system collecting regulated material from a transfer rack shall be performed only while a tank truck or railcar is being loaded or is otherwise pressurized to normal operating conditions with regulated material or any other detectable gas or vapor.	Y	
63.983(d)	(d) Closed vent system leak repair provisions. The provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.	Y	
63.983(d)(1)	(1) If there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required by paragraph (b)(1)(i)(B) of this section, the owner or operator shall follow the procedure specified in either paragraph (d)(1)(i) or (ii) of this section.	Y	
63.983(d)(1)(i)	(i) The owner or operator shall eliminate the leak.	Y	
63.983(d)(1)(ii)	(ii) The owner or operator shall monitor the equipment according to the procedures in paragraph (c) of this section.	Y	
63.983(d)(2)	(2) Leaks, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practical, except as provided in paragraph (d)(3) of this section. Records shall be generated as specified in §63.998(d)(1)(iii) when a leak is detected.	Y	
63.983(d)(2)(i)	(i) A first attempt at repair shall be made no later than 5 days after the leak is detected.	Y	
63.983(d)(2)(ii)	(ii) Except as provided in paragraph (d)(3) of this section, repairs shall be completed no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(d)(3)	(3) Delay of repair of a closed vent system for which leaks have been detected is allowed if repair within 15 days after a leak is detected is technically infeasible or unsafe without a closed vent system shutdown, as defined in §63.981, or if the owner or operator determines that emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed as soon as practical, but not later than the end of the next closed vent system shutdown.	Y	
63.984	Fuel gas systems and processes to which storage vessel, transfer rack, or equipment leak regulated material emissions are routed	Y	
63.984(a)	(a) Equipment and operating requirements for fuel gas systems and processes.	Y	
63.984(a)(1)	(1) Except during periods of start-up, shutdown and malfunction as specified in the referencing subpart, the fuel gas system or process shall be operating at all times when regulated material emissions are routed to it.	Y	
63.984(b)	(b) Fuel gas system and process compliance assessment.	Y	
63.984(b)(1)	(1) If emissions are routed to a fuel gas system, there is no requirement to conduct a performance test or design evaluation.	Y	
63.984(b)(2)	(2) If emissions are routed to a process, the regulated material in the emissions shall meet one or more of the conditions specified in paragraphs (b)(2)(i) through (iv) of this section. The owner or operator of storage vessels subject to this paragraph shall comply with the compliance demonstration requirements in paragraph (b)(3) of this section.	Y	
63.984(b)(2)(i)	(i) Recycled and/or consumed in the same manner as a material that fulfills the same function in that process;	Y	
63.984(b)(2)(ii)	(ii) Transformed by chemical reaction into materials that are not regulated materials;	Y	
63.984(b)(2)(iii)	(iii) Incorporated into a product; and/or	Y	
63.984(b)(2)(iv)	(iv) Recovered.	Y	
63.984(b)(3)	(3) To demonstrate compliance with paragraph (b)(2) of this section for a storage vessel, the owner or operator shall prepare a design evaluation (or engineering assessment) that demonstrates the extent to which one or more of the conditions specified in paragraphs (b)(2)(i) through (iv) of this section are being met.	Y	
63.984(c)	(c) Statement of connection. For storage vessels and transfer racks, the owner or operator shall submit the statement of connection reports for fuel gas systems specified in §63.999(b)(1)(ii), as appropriate.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart WW	NESHAPS for Source Categories: National Emission Standards for Storage Vessels (Tanks)—Control Level 2 (07/12/2002) (Requirements for Tanks subject to 40 CFR 63 Subpart FFFF)		
63.1060	Applicability: These requirements apply to storage tanks subject to control requirements under 40 CFR Part 63 Subparts EEEE and FFFF, and achieve compliance with those subparts by meeting the floating roof storage tank requirements of Subpart WW.	Y	
63.1061	Definitions	Y	
63.1062	Storage vessel control requirements	Y	
63.1062(a)	For each storage vessel to which this subpart applies, comply with one of the requirements listed in paragraphs (a)(1) through (a)(3).	Y	
63.1062(a)(1)	Operate and maintain an IFR.	Y	
63.1062(a)(2)	Operate and maintain an EFR.	Y	
63.1063	Standards: Floating Roof Storage Tanks	Y	
63.1063(a)(1)(i)	Floating roof rim seal standards for internal floating roof storage tanks.	Y	
63.1063(a)(1)(ii)	Floating roof rim seal standards for external floating roof storage tanks.	Y	
63.1063(a)(2)	Floating roof rim seal standards for both internal and external floating roof tanks.	Y	
63.1063(b)	Operational requirements for all floating roof storage tanks.	Y	
63.1063(c)(1)	Internal floating roof tank inspection frequency standards.	Y	
63.1063(c)(2)	External floating roof tank inspection and seal gap measurement frequency standards.	Y	
63.1063(d)(1)	Complete inspection procedure requirements for all floating roof tanks.	Y	
63.1063(d)(2)	Visual inspection procedure for internal floating roof visual inspection from openings in the fixed roof.	Y	
63.1063(d)(3)	Seal gap measurement procedures for external floating roof tank.	Y	
63.1063(e)	Repair requirements for deficiencies identified during inspections of floating roof storage tanks.	Y	
63.1065	Recordkeeping requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1065(a)	Maintain records of all storage tanks' dimensions, capacity, and stored liquid(s).	Y	
63.1065(b)	Maintain records of all storage tank inspections.	Y	
63.1065(c)	Maintain records of all floating roof landing and refloating events.	Y	
63.1065(d)	Maintain records of all delay-of-repair extensions utilized.	Y	
63.1066	Reporting requirements	Y	
63.1066(a)	Notification of initial startup	Y	
63.1066(b)	Periodic reports	Y	
40 CFR 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) (11/19/2020)		
63.2334	Am I subject to this subpart?	Y	
63.2334(a)	Except as provided for in paragraphs (b) and (c) of this section, you are subject to this subpart if you own or operate an OLD operation that is located at, or is part of, a major source of HAP emissions.	Y	
63.2338	What parts of my plant does this subpart cover?	Y	
63.2338(a)	This subpart applies to each new, reconstructed, or existing OLD operation affected source.	Y	
63.2338(b)	Except as provided in paragraph (c) of this section, the affected source is the collection of activities and equipment used to distribute organic liquids into, out of, or within a facility that is a major source of HAP.	Y	
63.2338(b)(1)	(1) All storage tanks storing organic liquids	Y	
63.2338(b)(3)(i)	All equipment leak components in organic liquids service associated with tanks subject to this subpart.	Y	
63.2338(c)	Equipment excluded from the affected source.	Y	
63.2342	When do I have to comply with this subpart?	Y	
63.2342(b)	Schedule for an existing source. Compliance required with emission limitations, operating limits, and work practice standards no later than February 3, 2004.	Y	
63.2342(d)	You must meet the notification requirements in §§63.2343 and 63.2382(a), as applicable, according to the schedules in §63.2382(a) and (b)(1) through (3) and in subpart A of this part.	Y	
63.2343	What are my requirements for emission sources not requiring control?	Y	
63.2343(a)	Requirements for storage tanks with a capacity less than 5,000 gallons.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2343(b)	Requirements for storage tanks with a capacity greater than 5,000 gallons.	Y	
63.2343(d)	Events requiring submission of a subsequent Compliance report.	Y	
63.2346	What emission limitations, operating limits, and work practice standards must I meet?	Y	
63.2346(a)	Requirements for storage tanks.	Y	
63.2346(c)	Requirements for equipment leak components.	Y	
63.2346(e)	Operating limits for tanks and transfer racks.	Y	
63.2346(i)	Opening of a safety device	Y	
63.2346(l)	Startup, shutdown, and malfunction. Beginning no later than the compliance dates specified in §63.2342(e), the referenced provisions specified in paragraphs (l)(1) through (20) of this section do not apply when demonstrating compliance with subpart H of this part, subpart SS of this part, subpart TT of this part, and subpart UU of this part.	Y	
63.2350	What are my general requirements for complying with this subpart?	Y	
63.2350(a)	You must be in compliance with the emission limitations, operating limits, and work practice standards in this subpart at all times when the equipment identified in §63.2338(b)(1) through (4) is in OLD operation.	Y	
63.2350(b)	You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).	Y	
63.2350(c)	Except for emission sources not required to be controlled as specified in §63.2343, you must develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions in §63.6(e)(3).	Y	
63.2354	What performance tests, design evaluations, and performance evaluations must I conduct?	Y	
63.2354(c)	Approved methods for determining the HAP content of an organic liquid.	Y	
63.2358	By what date must I conduct performance tests and other initial compliance demonstrations?	Y	
63.2358(a)	Schedule to conduct initial performance tests and design evaluations.	Y	
63.2358(b)	Schedule to comply with emission limitations for storage tanks and transfer racks. Initial compliance with emissions limitations by February 5, 2007, except as provided in b(1)(i) and (b)(1)(ii) of this section.	Y	
63.2358(c)	Schedule for storage tanks and transfer racks to comply with work practice standard in Table 4 of this subpart.	Y	

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Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2358(d)	Schedule for reconstructed or new storage tanks, transfer racks, and equipment leak components with work practice standards in Table 4 of this subpart. Initial compliance demonstration within 180 days of initial startup date for the affected source.	Y	
63.2366	What are my monitoring installation, operation, and maintenance requirements?	Y	
63.2366(a)	Requirement to install continuous monitoring system (CMS) on each control device required in order to comply with this subpart.	Y	
63.2366(b)	Requirements for nonflare devices controlling storage tanks and low throughput transfer racks.	Y	
63.2370	How do I demonstrate initial compliance with the emission limitations, operating limits, and work practice standards?	Y	
63.2370(a)	You must demonstrate initial compliance with each emission limitation and work practice standard that applies to you as specified in tables 6 and 7 to this subpart.	Y	
63.2370(c)	You must submit the results of the initial compliance determination in the Notification of Compliance Status according to the requirements in §63.2382(d).	Y	
63.2378	How do I demonstrate continuous compliance with the emission limitations, operating limits, and work practice standards?	Y	
63.2378(a)	You must demonstrate continuous compliance with each emission limitation, operating limit, and work practice standard in Tables 2 through 4 to this subpart that applies to you according to the methods specified in subpart SS of this part and in tables 8 through 10 to this subpart, as applicable.	Y	
63.2378(b)	Requirements during periods of startup, shutdown, malfunction, or nonoperation of the affected source.	Y	
63.2378(c)	Limitations on hours of maintenance of a control device when the control device does not meet emission limits in table 2 of this subpart.	Y	
63.2378(d)	Except as specified in paragraph (e) of this section, if you route emissions from storage tanks or transfer racks to a fuel gas system or to a process, as allowed by §63.982(d), to comply with the emission limits in Table 2 to this subpart, the total aggregate amount of time during which the emissions bypass the fuel gas system or process during the calendar year without being routed to a control device, for all reasons (except SSM or product changeovers of flexible operation units and periods when a storage tank has been emptied and degassed), must not exceed 240 hours.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2378(e)	Beginning no later than the compliance dates specified in §63.2342(e), paragraphs (b) through (d) of this section no longer apply. Instead, you must be in compliance with each emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section at all times, except during periods of nonoperation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies and must comply with the requirements specified in paragraphs (e)(1) through (5) of this section, as applicable. Equipment subject to the work practice standards for equipment leak components in Table 4 to this subpart, item 4 are not subject to this paragraph (e).	Y	
63.2380	What are my requirements for certain flares?	Y	
63.2380(a)	(a) Beginning no later than the compliance dates specified in §63.2342(e), if you reduce organic HAP emissions by venting emissions through a closed vent system to a steam-assisted, air-assisted, or non-assisted flare to control emissions from a storage tank, low throughput transfer rack, or high throughput transfer rack that is subject to control based on the criteria specified in Tables 2 or 2b to this subpart, then the flare requirements specified in §63.11(b); subpart SS of this part; the provisions specified in items 7.a through 7.d of Table 3 to this subpart; Table 8 to this subpart; and the provisions specified in items 1.a.iii and 2.a.iii, and items 7.a through 7.d.2 of Table 9 to this subpart no longer apply. Instead, you must meet the applicable requirements for flares as specified in §§63.670 and 63.671, including the provisions in Tables 12 and 13 to subpart CC of this part, except as specified in paragraphs (b) through (m) of this section. For purposes of compliance with this paragraph, the following terms are defined in §63.641: Assist air, assist steam, center steam, combustion zone, combustion zone gas, flare, flare purge gas, flare supplemental gas, flare sweep gas, flare vent gas, lower steam, net heating value, perimeter assist air, pilot gas, premix assist air, total steam, and upper steam.	Y	
63.2380(b)	The following phrases in §63.670(c) do not apply.	Y	
63.2380(c)	The phrase “and the flare vent gas flow rate is less than the smokeless design capacity of the flare” in §63.670(d) does not apply.	Y	
63.2380(d)	Section 63.670(j)(6)(ii) does not apply. Instead submit the information required by §63.670(j)(6)(ii) with the Notification of Compliance Status according to §63.2382(d)(2)(ix).	Y	
63.2380(e)	Section 63.670(o) does not apply.	Y	
63.2380(f)	Substitute “pilot flame or flare flame” or each occurrence of “pilot flame.”	Y	
63.2380(g)	Substitute “affected source” for each occurrence of “petroleum refinery.”	Y	
63.2380(h)	Each occurrence of “refinery” does not apply.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2380(i)	You may elect to comply with the alternative means of emissions limitation requirements specified in §63.670(r) in lieu of the requirements in §63.670(d) through (f), as applicable. However, instead of complying with §63.670(r)(3)(iii), you must also submit the alternative means of emissions limitation request to the following address: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, U.S. EPA Mailroom (E143-01), Attention: Organic Liquids Distribution Sector Lead, 109 T.W. Alexander Drive, Research Triangle Park, NC 27711. Electronic copies in lieu of hard copies may also be submitted to oldrtr@epa.gov.	Y	
63.2380(j)	If you choose to determine compositional analysis for net heating value with a continuous process mass spectrometer, then you must comply with the requirements specified in paragraphs (j)(1) through (7) of this section.	Y	
63.2380(k)	If you use a gas chromatograph or mass spectrometer for compositional analysis for net heating value, then you may choose to use the CE of NHV measured versus the cylinder tag value NHV as the measure of agreement for daily calibration and quarterly audits in lieu of determining the compound-specific CE.	Y	
63.2380(l)	Instead of complying with §63.670(p), you must keep the flare monitoring records specified in §63.2390(h).	Y	
63.2380(m)	Instead of complying with §63.670(q), you must comply with the reporting requirements specified in §63.2382(d)(2)(ix) and §63.2386(d)(5).	Y	
63.2382	What notifications must I submit and when and what information should be submitted?	Y	
63.2382(a)	You must submit each notification in subpart SS of this part, table 12 to this subpart, and paragraphs (b) through (d) of this section that applies to you. You must submit these notifications according to the schedule in table 12 to this subpart and as specified in paragraphs (b) through (d) of this section.	Y	
63.2382(b)	Initial notification requirements.	Y	
63.2382(c)	Notification requirements for performance tests.	Y	
63.2382(d)	When Notice of Compliance Status must be submitted.	Y	
63.2386	What reports must I submit and when and what information is to be submitted in each.	Y	
63.2386(a)	You must submit each report in subpart SS of this part, Table 11 to this subpart, table 12 to this subpart, and in paragraphs (c) through (j) of this section that applies to you.	Y	
63.2386(b)	Schedule for reporting.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2386(c)	Requirements for first compliance report.	Y	
63.2386(d)	Requirements for subsequent compliance reports.	Y	
63.2386(e)	Reporting Title V deviations.	Y	
63.2386(f)	Beginning no later than the compliance dates specified in §63.2342(e), submit all Compliance reports to the EPA via CEDRI.	Y	
63.2386(g)	Beginning no later than the compliance dates specified in §63.2342(e), submit performance test reports in accordance with this paragraph.	Y	
63.2386(h)	Beginning no later than the compliance dates specified in §63.2342(e), submit performance evaluation reports in accordance with this paragraph.	Y	
63.2386(i)	EPA CDX outage provisions	Y	
63.2386(j)	Force majeure provisions	Y	
63.2390	What records must I keep?	Y	
63.2390(a)	Recordkeeping requirements for sources not requiring control under this subpart.	Y	
63.2390(b)	Recordkeeping requirements for sources requiring control under this subpart.	Y	
63.2390(d)	Recordkeeping requirement for total actual annual facility organic liquid loading volume.	Y	
63.2390(e)	Recordkeeping requirements for an owner/operator electing to comply with 63.2346(a)(4).	Y	
63.2390(f)	Beginning no later than the compliance dates specified in §63.2342(e), for each deviation from an emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section, you must keep a record of the information specified in paragraph (f)(1) through (3) of this section.	Y	
63.2390(g)	Beginning no later than the compliance dates specified in §63.2342(e), for each flow event from a bypass line subject to the requirements in §63.2378(e)(1) and (2), you must maintain records sufficient to determine whether or not the detected flow included flow requiring control.	Y	
63.2390(h)	Beginning no later than the compliance dates specified in §63.2342(e), for each flare subject to the requirements in §63.2380, you must keep records specified in paragraphs (h)(1) through (10) of this section in lieu of the information required in §63.998(a)(1).	Y	
63.2394	In what form and how long must I keep my records?	Y	
63.2394(a)	Your records must be in a form suitable and readily available for expeditious inspection and review according to §63.10(b)(1), including records stored in electronic form at a separate location.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2394(b)	Requirement to maintain records for 5 years.	Y	
63.2394(c)	Requirement to maintain records onsite for 2 years. Records may be kept offsite for the remaining 3 years.	Y	
63.2396	What compliance options do I have if part of my plant is subject to both this subpart and another subpart?	Y	
63.2396(a)	Compliance with other regulations for storage tanks.	Y	
63.2396(b)	Compliance with other regulations for transfer racks.	Y	
63.2396(c)	Compliance with other regulations for equipment leak components.	Y	
63.2396(d)	Overlap of subpart EEEE with other regulations for flares for the OLD source category.	Y	
63.2396(e)	Overlap with regulations for monitoring, recordkeeping, and reporting.	Y	
63.2398	What parts of the General Provisions apply to me? Table 12 shows the portions of the General Provisions that apply.	Y	
63.2406	What definitions apply to this subpart?	Y	
40 CFR 63 Subpart FFFF	NESHAPS for Miscellaneous Organic Chemical Manufacturing (08/12/2020)		
63.2435	Am I subject to the requirements in this subpart?	Y	
63.2435(a)	You are subject to this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at a major source of HAP.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	The miscellaneous organic chemical manufacturing affected source facilitywide collection of MCPU and heat exchange systems, wastewater, and waste management units that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2445	When do I have to comply with this subpart?	Y	
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(g)	All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with 63.2445(g)(1 – 7) upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2450	What are my general requirements for complying with this subpart?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(a)	Except as specified in 63.2450(a)(2), you must be in compliance with the emission limits and work practice standards in Tables 1 through 7 to this subpart at all times, except during periods of startup, shutdown, and malfunction (SSM), and you must meet the requirements specified in §§63.2455 through 63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505), except as specified in paragraphs (b) through (s) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.2515, 63.2520, and 63.2525.	Y	
63.2450(b)	Beginning no later than the compliance dates specified in §63.2445(g), paragraph (a)(1) of this section no longer applies. Instead, you must be in compliance with the emission limits and work practice standards in Tables 1 through 7 to this subpart at all times, and you must meet the requirements specified in §§63.2455 through 63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505), except as specified in paragraphs (b) through (v) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.2515, 63.2520, and 63.2525.	Y	
63.2450(e)	Control devices.	Y	
63.2450(e)(1)	Except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed-vent system to any combination of control devices (except a flare) or recovery devices, you must meet the requirements of paragraph (e)(4) of this section, and the requirements of §63.982(c) and the requirements referenced therein.	Y	
63.2450(e)(2)	Except as specified in paragraph (e)(5) of this section or except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed-vent system to a flare, you must meet the requirements of paragraph (e)(4) of this section, and the requirements of §63.982(b) and the requirements referenced therein.	Y	
63.2450(e)(4)	Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (e)(4)(i) through (xvi) of this section do not apply when demonstrating compliance with subpart SS of this part.	Y	
63.2450(e)(5)	For any flare that is used to reduce organic HAP emissions from an MCPU, the permittee elects to comply with the requirements in this paragraph in lieu of the requirements of §63.982(b) and the requirements referenced therein.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(e)(6)	Beginning no later than the compliance dates specified in §63.2445(g), the use of a bypass line at any time on a closed vent system to divert emissions subject to the requirements in Tables 1 through 7 to this subpart to the atmosphere or to a control device not meeting the requirements specified in Tables 1 through 7 to this subpart is an emissions standards deviation. You must also comply with the requirements specified in paragraphs (e)(6)(i) through (v) of this section, as applicable	Y	
63.2450(g)	Performance tests - the requirements specified in 63.2450(g)(1) through (7) apply instead of or in addition to the requirements specified in subpart SS of this part.	Y	
63.2450(h)	To determine the percent reduction of a small control device that is used to comply with an emission limit specified in Table 1, 2, 3, or 5 to this subpart, you may elect to conduct a design evaluation as specified in §63.1257(a)(1) instead of a performance test as specified in subpart SS of this part.	Y	
63.2450(j)	Continuous emissions monitoring systems (CEMS) - each CEMS must be installed, operated, and maintained according to the requirements in §63.8 of subpart A and paragraphs (j)(1) through (6) of this section.	Y	
63.2450(j)(1)	CEMS – install, operate, and maintain according to the applicable Performance Specification of 40 CFR part 60, appendix B, and the applicable Quality Assurance Procedures of 40 CFR part 60, appendix F, and according to paragraph (j)(2) of this section, except as specified in paragraph (j)(1)(i) of this section.	Y	
63.2450(j)(2)	CEMS - Determine the calibration gases and reporting units for TOC CEMS in accordance with paragraph (j)(2)(i), (ii), or (iii) of this section.	Y	
63.2450(j)(3)	CEMS - performance evaluations	Y	
63.2450(j)(4)	CEMS – data reduction requirements	Y	
63.2450(j)(6)	CEMS – in lieu of the requirements specified in §63.8(d)(3) of subpart A, keep the written procedures required by §63.8(d)(2) of subpart A on record for the life of the affected source or until the affected source is no longer subject to the provisions of this part. In addition, written procedures for CEMS must include the information in paragraphs (j)(6)(i) through (vi).	Y	
63.2450(k)	CPMS - Continuous parameter monitoring. The provisions in paragraphs (k)(1) through (8) of this section apply in addition to the requirements for continuous parameter monitoring system (CPMS) in subpart SS of this part.	Y	
63.2450(l)	Startup, shutdown, and malfunction. Sections 63.152(f)(7)(ii) through (iv) and 63.998(b)(2)(iii) and (b)(6)(i)(A), which apply to the exclusion of monitoring data collected during periods of SSM from daily averages, do not apply for the purposes of this subpart.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(m)	Reporting	Y	
63.2450(m)(1)	Reporting - When §§63.2455 through 63.2490 reference other subparts in this part 63 that use the term “periodic report,” it means “compliance report” for the purposes of this subpart. The compliance report must include the information specified in §63.2520(e), as well as the information specified in referenced subparts. (2) When there are conflicts between this subpart and referenced subparts for the due dates of reports required by this subpart, reports must be submitted according to the due dates presented in this subpart.	Y	
63.2450(m)(2)	Reporting - When there are conflicts between this subpart and referenced subparts for the due dates of reports required by this subpart, reports must be submitted according to the due dates presented in this subpart.	Y	
63.2450(m)(3)	Reporting - Excused excursions, as defined in subparts G and SS of this part 63, are not allowed.	Y	
63.2450(p)	Original safety device requirements. Except as specified in 63.2450(t), opening a safety device, as defined in §63.2550, is allowed at any time conditions require it to avoid unsafe conditions.	Y	
63.2450(t)	New safety device requirements. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (p) of this section no longer applies. Instead, you must comply with the requirements specified in §63.2480(e).	Y	
63.2450(u)	General duty - Beginning no later than the compliance dates specified in §63.2445(g), at all times, you must 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. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(v)	Maintenance vents - Beginning no later than the compliance dates specified in §63.2445(g), you may designate a process vent as a maintenance vent if the vent is only used as a result of startup, shutdown, maintenance, or inspection of equipment where equipment is emptied, depressurized, degassed, or placed into service. You must comply with the applicable requirements in paragraphs (v)(1) through (3) of this section for each maintenance vent. Any vent designated as a maintenance vent is only subject to the maintenance vent provisions in this paragraph (v) and the associated recordkeeping and reporting requirements in §§63.2525(p) and 63.2520(e)(14), respectively. You do not need to designate a maintenance vent as a Group 1 or Group 2 process vent nor identify maintenance vents in a Notification of Compliance Status report.	Y	
63.2455	Continuous process vents	Y	
63.2455(a)	Continuous process vents – Meet each emission limit in Table 1 to this subpart that applies to your continuous process vents, and you must meet each applicable requirement specified in paragraphs (b) through (c) of this section and §§63.2492 and 63.2493(a) through (c).	Y	
63.2455(b)	Continuous process vents – For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1) through (3) of this section.	Y	
63.2455(c)	If you use a recovery device to maintain the TRE above a specified threshold, you must meet the requirements of §63.982(e) and the requirements referenced therein, except as specified in §63.2450 and paragraph (c)(1) of this section.	Y	
63.2470	Storage tank provisions	Y	
63.2470(a)	General emissions limits and applicable requirements	Y	
63.2470(c)	Exceptions to subparts SS and WW of 40 CFR 63.	Y	
63.2470(d)	Planned routine maintenance. The emission limits in Table 4 to this subpart for control devices used to control emissions from storage tanks do not apply during periods of planned routine maintenance. Periods of planned routine maintenance of each control device, during which the control device does not meet the emission limit specified in Table 4 to this subpart, must not exceed 240 hours per year (hr/yr). You may submit an application to the Administrator requesting an extension of this time limit to a total of 360 hr/yr. The application must explain why the extension is needed, it must indicate that no material will be added to the storage tank between the time the 240-hr limit is exceeded and the control device is again operational, and it must be submitted at least 60 days before the 240-hr limit will be exceeded.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2470(e)	Vapor balancing alternative. As an alternative to the emission limits specified in Table 4 to this subpart you may elect to implement vapor balancing in accordance with §63.1253(f), except as specified in paragraphs (e)(1) through (3) of this section.	Y	
63.2470(f)	Storage tank degassing - Beginning no later than the compliance dates specified in §63.2445(g), for each storage tank subject to item 1 of Table 4 to this subpart, you must comply with paragraphs (f)(1) through (3) of this section during storage tank shutdown operations (i.e., emptying and degassing of a storage tank) until the vapor space concentration in the storage tank is less than 10 percent of the LEL. You must determine the LEL using process instrumentation or portable measurement devices and follow procedures for calibration and maintenance according to manufacturer's specifications.	Y	
63.2470(f)(1)	Remove liquids from the storage tank as much as practicable.	Y	
63.2470(f)(2)	Comply with one of the following:	Y	
63.2470(f)(2)(i)	Reduce emissions of total organic HAP by venting emissions through a closed vent system to a flare.	Y	
63.2470(f)(2)(ii)	Reduce emissions of total organic HAP by 95 weight-percent by venting emissions through a closed vent system to any combination of non-flare control devices.	Y	
63.2470(f)(2)(iii)	Reduce emissions of total organic HAP by routing emissions to a fuel gas system or process and meet the requirements specified in §63.982(d) and the applicable requirements in §63.2450(e)(4).	Y	
63.2470(f)(3)	Maintain records necessary to demonstrate compliance with the requirements in §63.2450(u) including, if appropriate, records of existing standard site procedures used to empty and degas (deinventory) equipment for safety purposes.	Y	
63.2475	Transfer racks	Y	
63.2475(a)	Comply with each emission limit and work practice standard in Table 5.	Y	
63.2475(b)	When the term “high throughput transfer rack” is used in subpart SS of this part 63, the term “Group 1 transfer rack,” as defined in §63.2550, applies for the purposes of this subpart.	Y	
63.2480	Equipment leaks	Y	
63.2480(a)	You must meet each requirement in Table 6 to this subpart that applies to your equipment leaks, except as specified in paragraphs (b) through (f) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(b)	Except as specified in paragraphs (b)(6) and (7) of this section, if you comply with either subpart H or UU of this part, you may elect to comply with the provisions in paragraphs (b)(1) through (5) of this section as an alternative to the referenced provisions in subpart H or UU of this part.	Y	
63.2480(e)	Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of this chapter. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	
63.2480(e)	(e) Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of 40 CFR subpart F. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	
63.2480(e)(1)	(1) Operating requirements. Except during a pressure release, operate each pressure relief device in organic HAP gas or vapor service with an instrument reading of less than 500 ppm above background as measured by the method in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F.	Y	
63.2480(e)(2)	(2) Pressure release requirements. For pressure relief devices in organic HAP gas or vapor service, you must comply with the applicable requirements paragraphs (e)(2)(i) through (iii) of this section following a pressure release.	Y	
63.2480(e)(2)(i)	(i) If the pressure relief device does not consist of or include a rupture disk, conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(2)(ii)	(ii) If the pressure relief device includes a rupture disk, either comply with the requirements in paragraph (e)(2)(i) of this section (and do not replace the rupture disk) or install a replacement disk as soon as practicable after a pressure release, but no later than 5 calendar days after the pressure release. You must conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(2)(iii)	(iii) If the pressure relief device consists only of a rupture disk, install a replacement disk as soon as practicable after a pressure release, but no later than 5 calendar days after the pressure release. You must not initiate startup of the equipment served by the rupture disk until the rupture disc is replaced. You must conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(3)	(3) Pressure release management. Except as specified in paragraphs (e)(4) and (5) of this section, you must comply with the requirements specified in paragraphs (e)(3)(i) through (v) of this section for all pressure relief devices in organic HAP service.	Y	
63.2480(e)(3)(i)	(i) You must equip each affected pressure relief device with a device(s) or use a monitoring system that is capable of: (A) Identifying the pressure release; (B) Recording the time and duration of each pressure release; and (C) Notifying operators immediately that a pressure release is occurring. The device or monitoring system must be either specific to the pressure relief device itself or must be associated with the process system or piping, sufficient to indicate a pressure release to the atmosphere. Examples of these types of devices and systems include, but are not limited to, a rupture disk indicator, magnetic sensor, motion detector on the pressure relief valve stem, flow monitor, or pressure monitor.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(3)(ii)	(ii) You must apply at least three redundant prevention measures to each affected pressure relief device and document these measures. Examples of prevention measures include: (A) Flow, temperature, liquid level and pressure indicators with deadman switches, monitors, or automatic actuators. Independent, non-duplicative systems within this category count as separate redundant prevention measures. (B) Documented routine inspection and maintenance programs and/or operator training (maintenance programs and operator training may count as only one redundant prevention measure). (C) Inherently safer designs or safety instrumentation systems. (D) Deluge systems. (E) Staged relief system where the initial pressure relief device (with lower set release pressure) discharges to a flare or other closed vent system and control device.	Y	
63.2480(e)(3)(iii)	(iii) If any affected pressure relief device releases to atmosphere as a result of a pressure release event, you must perform root cause analysis and corrective action analysis according to the requirement in paragraph (e)(6) of this section and implement corrective actions according to the requirements in paragraph (e)(7) of this section. You must also calculate the quantity of organic HAP released during each pressure release event and report this quantity as required in §63.2520(e)(15). Calculations may be based on data from the pressure relief device monitoring alone or in combination with process parameter monitoring data and process knowledge.	Y	
63.2480(e)(3)(iv)	(iv) You must determine the total number of release events that occurred during the calendar year for each affected pressure relief device separately. You must also determine the total number of release events for each pressure relief device for which the root cause analysis concluded that the root cause was a force majeure event, as defined in §63.2550.	Y	
63.2480(e)(3)(v)	(v) Except for pressure relief devices described in paragraphs (e)(4) and (5) of this section, the following release events from an affected pressure relief device are a deviation of the pressure release management work practice standards. (A) Any release event for which the root cause of the event was determined to be operator error or poor maintenance. (B) A second release event not including force majeure events from a single pressure relief device in a 3 calendar year period for the same root cause for the same equipment. (C) A third release event not including force majeure events from a single pressure relief device in a 3 calendar year period for any reason.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(4)	(4) Pressure relief devices routed to a control device, process, fuel gas system, or drain system. (i) If all releases and potential leaks from a pressure relief device are routed through a closed vent system to a control device, back into the process, to the fuel gas system, or to a drain system, then you are not required to comply with paragraph (e)(1), (2), or (3) of this section.	Y	
63.2480(e)(4)(ii)	(ii) Before the compliance dates specified in §63.2445(g), both the closed vent system and control device (if applicable) referenced in paragraph (e)(4)(i) of this section must meet the applicable requirements specified in §63.982(b) and (c)(2) of subpart SS. Beginning no later than the compliance dates specified in §63.2445(g), both the closed vent system and control device (if applicable) referenced in paragraph (e)(4)(i) of this section must meet the applicable requirements specified in §63.982(c)(2), §63.983, and §63.2450(e)(4) through (6).	Y	
63.2480(e)(4)(iii)	(iii) The drain system (if applicable) referenced in paragraph (e)(4)(i) must meet the applicable requirements specified in §63.2485(e).	Y	
63.2480(e)(5)	(5) Pressure relief devices exempted from pressure release management requirements. The following types of pressure relief devices are not subject to the pressure release management requirements in paragraph (e)(3) of this section. (i) Pressure relief devices in heavy liquid service, as defined in §63.1020 of subpart UU or §65.103(f) of 40 CFR subpart F. (ii) Thermal expansion relief valves. (iii) Pressure relief devices on mobile equipment. (iv) Pilot-operated pressure relief devices where the primary release valve is routed through a closed vent system to a control device or back into the process, to the fuel gas system, or to a drain system. (v) Balanced bellows pressure relief devices where the primary release valve is routed through a closed vent system to a control device or back into the process, to the fuel gas system, or to a drain system.	Y	
63.2480(e)(6)	(6) Root cause analysis and corrective action analysis. A root cause analysis and corrective action analysis must be completed as soon as possible, but no later than 45 days after a release event. Special circumstances affecting the number of root cause analyses and/or corrective action analyses are provided in paragraphs (e)(6)(i) through (iii) of this section.	Y	
63.2480(e)(6)(i)	(i) You may conduct a single root cause analysis and corrective action analysis for a single emergency event that causes two or more pressure relief devices installed on the same equipment to release.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(6)(ii)	(ii) You may conduct a single root cause analysis and corrective action analysis for a single emergency event that causes two or more pressure relief devices to release, regardless of the equipment served, if the root cause is reasonably expected to be a force majeure event, as defined in §63.2550.	Y	
63.2480(e)(6)(iii)	(iii) Except as provided in paragraphs (e)(6)(i) and (ii) of this section, if more than one pressure relief device has a release during the same time period, an initial root cause analysis must be conducted separately for each pressure relief device that had a release. If the initial root cause analysis indicates that the release events have the same root cause(s), the initially separate root cause analyses may be recorded as a single root cause analysis and a single corrective action analysis may be conducted.	Y	
63.2480(e)(7)	(7) Corrective action implementation. You must conduct a root cause analysis and corrective action analysis as specified in paragraphs (e)(3)(iii) and (e)(6) of this section, and you must implement the corrective action(s) identified in the corrective action analysis in accordance with the applicable requirements in paragraphs (e)(7)(i) through (iii) of this section.	Y	
63.2480(e)(7)(i)	(i) All corrective action(s) must be implemented within 45 days of the event for which the root cause and corrective action analyses were required or as soon thereafter as practicable. If you conclude that no corrective action should be implemented, you must record and explain the basis for that conclusion no later than 45 days following the event.	Y	
63.2480(e)(7)(ii)	(ii) For corrective actions that cannot be fully implemented within 45 days following the event for which the root cause and corrective action analyses were required, you must develop an implementation schedule to complete the corrective action(s) as soon as practicable.	Y	
63.2480(e)(7)(iii)	(iii) No later than 45 days following the event for which a root cause and corrective action analyses were required, you must record the corrective action(s) completed to date, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.	Y	
63.2480(e)(8)	(e) Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of this chapter. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485	Wastewater streams and liquid streams in open systems within an MCPU	Y	
63.2485(a)	Wastewater streams - You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	
63.2485(c)	Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(c)(1)	(1) The total annual average concentration of compounds in table 8 to this subpart is greater than or equal to 10,000 ppmw at any flowrate, and the total annual load of compounds in table 8 to this subpart is greater than or equal to 200 lb/yr.	Y	
63.2485(c)(2)	The total annual average concentration of compounds in table 8 to this subpart is greater than or equal to 1,000 ppmw, and the annual average flowrate is greater than or equal to 1 l/min.	Y	
63.2485(c)(3)	The combined total annual average concentration of compounds in tables 8 and 9 to this subpart is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to this subpart is greater than or equal to 1 tpy.	Y	
63.2485(d)	Wastewater tank requirements.	Y	
63.2485(d)(1)	When §§63.133 and 63.147 reference floating roof requirements in §§63.119 and 63.120, the corresponding requirements in subpart WW of this part 63 may be applied for the purposes of this subpart.	Y	
63.2485(d)(2)	When §63.133(a) refers to table 10 of subpart G of this part 63, the maximum true vapor pressure in the table shall be limited to the HAP listed in tables 8 and 9 of this subpart FFFF.	Y	
63.2485(d)(3)	For the purposes of this subpart, the requirements of §63.133(a)(2) are satisfied by operating and maintaining a fixed roof if you demonstrate that the total soluble and partially soluble HAP emissions from the wastewater tank are no more than 5 percent higher than the emissions would be if the contents of the wastewater tank were not heated, treated by an exothermic reaction, or sparged.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(d)(4)	The emission limits specified in §§63.133(b)(2) and 63.139 for control devices used to control emissions from wastewater tanks do not apply during periods of planned routine maintenance of the control device(s) of no more than 240 hr/yr. You may request an extension to a total of 360 hr/yr in accordance with the procedures specified in §63.2470(d).	Y	
63.2485(e)	Individual drain systems. The provisions of §63.136(e)(3) apply except as specified in paragraph (e)(1) of this section.	Y	
63.2485(e)(1)	A sewer line connected to drains that are in compliance with §63.136(e)(1) may be vented to the atmosphere, provided that the sewer line entrance to the first downstream junction box is water sealed and the sewer line vent pipe is designed as specified in §63.136(e)(2)(ii)(A).	Y	
63.2485(f)	Closed-vent system requirements. Except as specified in §63.2450(e)(6), when §63.148(k) refers to closed vent systems that are subject to the requirements of §63.172, the requirements of either §63.172 or §63.1034 apply for the purposes of this subpart.	Y	
63.2485(h)	Alternative test methods.	Y	
63.2485(i)	Offsite management and treatment option.	Y	
63.2485(j)	You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	
63.2485(k)	Outlet concentration correction for supplemental gases. The requirement to correct outlet concentrations from combustion devices to 3-percent oxygen in §§63.139(c)(1)(ii) and 63.145(i)(6) applies only if supplemental gases are combined with a vent stream from a Group 1 wastewater stream. If emissions are controlled with a vapor recovery system as specified in §63.139(c)(2), you must correct for supplemental gases as specified in §63.2460(c)(6).	Y	
63.2485(l)	Requirements for liquid streams in open systems.	Y	
63.2485(m)	When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
63.2485(n)	(n) Alternative requirements for wastewater that is Group 1 for soluble HAP only.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(o)	Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	
63.2485(p)	Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
63.2490	Heat exchange systems	Y	
63.2490(a)	Heat exchange systems – comply with Table 10 of 40 CFR 63 Subpart FFFF, Except as specified in 63.2490(b) through (d).	Y	
63.2490(d)	Beginning no later than the compliance dates specified in §63.2445(g), comply with 63.2490(d)(1) – (4).	Y	
63.2490(d)(1)	Perform monitoring to identify leaks of total strippable hydrocarbons from each heat exchange system	Y	
63.2490(d)(1)(i)	Heat exchange systems - monitoring locations for closed-loop recirculation heat exchange systems:	Y	
63.2490(d)(1)(i)(A)	Collect and analyze a sample from each cooling tower return line.	Y	
63.2490(d)(1)(i)(B)	Selected heat exchanger exit line(s) so that each heat exchanger or group of exchangers within a system is covered.	Y	
63.2490(d)(1)(iii)(A)	Heat exchange systems – Monitoring method: Determine total strippable hydrocarbon concentration in ppmv as methane using the Modified El Paso Method	Y	
63.2490(d)(1)(iii)(B)	Heat exchange systems – Monitoring method: Convert total strippable hydrocarbons concentration to mass emissions rate.	Y	
63.2490(d)(1)(iv)	Heat exchange systems – Monitoring frequency and leak action levels. Comply with the monitoring frequency in 63.2490(d)(1)(iv). Leak action level is the strippable hydrocarbon concentration (as methane) in stripping gas of 6.2 ppmv, or for heat exchange systems with a recirculation rate of 10,000 gal/min or less, total hydrocarbon mass emissions rate from the heat exchange system (as methane) of 0.18 kg/hr.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2490(d)(1)(v)	Heat exchange systems – leak definition	Y	
63.2490(d)(1)(v) (B)	Heat exchange systems – leak definition for closed-loop recirculation heat exchange systems: A leak is detected if a measurement value of the sample taken from a location equals or exceeds the leak action level.	Y	
63.2490(d)(2)	If a leak is detected per 63.2490(d)(1), repair the leak to reduce the concentration or mass emissions rate to below the applicable leak action level as soon as practicable, but no later than 45 days after identifying the leak. Additional monitoring is allowed in accordance with 63.2490(d)(3). Delay of repair is allowed in accordance with 63.2490(d)(4). Actions that can be taken to repair include but are not limited to:	Y	
63.2490(d)(2)(i)	Physical modifications to the leaking heat exchanger	Y	
63.2490(d)(2)(ii)	Blocking the leaking tube within the heat exchanger	Y	
63.2490(d)(2)(iii)	Changing the pressure so that water flows into the process fluid	Y	
63.2490(d)(2)(iv)	Replacing the heat exchanger or heat exchanger bundle	Y	
63.2490(d)(2)(v)	Isolating, bypassing, or otherwise removing the leaking heat exchanger from service until repaired	Y	
63.2490(d)(3)	Heat exchange systems - Additional monitoring upon leak detection	Y	
63.2490(d)(4)	Heat exchange systems - Delay of repair for heat exchange system leaks	Y	
63.2492	How do I determine whether my process vent, storage tank, or equipment is in ethylene oxide service? To determine if process vents, storage tanks, and equipment leaks are in ethylene oxide service as defined in §63.2550(i), you must comply with the requirements in paragraphs (a) through (c) of this section, as applicable.	Y	
63.2492(a)	For each batch process vent or continuous process vent stream, you must measure the flow rate and concentration of ethylene oxide of each process vent as specified in paragraphs (a)(1) through (5) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2492(b)	For storage tanks, you must measure the concentration of ethylene oxide of the fluid stored in the storage tanks using Method 624.1 of 40 CFR part 136, appendix A, or preparation by Method 5031 and analysis by Method 8260D (both incorporated by reference, see §63.14) in the SW-846 Compendium. In lieu of preparation by SW-846 Method 5031, you may use SW-846 Method 5030B (incorporated by reference, see §63.14), as long as: You do not use a preservative in the collected sample; you store the sample with minimal headspace as cold as possible and at least below 4 degrees C; and you analyze the sample as soon as possible, but in no case longer than 7 days from the time the sample was collected. If you are collecting a sample from a pressure vessel, you must maintain the sample under pressure both during and following sampling.	Y	
63.2492(c)	For equipment leaks, you must comply with the requirements in paragraphs (c)(1) through (4) of this section.	Y	
63.2493	What requirements must I meet for process vents, storage tanks, or equipment that are in ethylene oxide service?	Y	
63.2500	How do I comply with emissions averaging?	Y	
63.2505	How do I comply with the alternative standard? As an alternative to complying with the emission limits and work practice standards for process vents and storage tanks in Tables 1 through 4 to this subpart and the requirements in §§63.2455 through 63.2470, you may comply with the emission limits in paragraph (a) of this section and demonstrate compliance in accordance with the requirements in paragraph (b) of this section.	Y	
63.2515	What notifications must I submit and when?	Y	
63.2515(a)	General. Except as specified in paragraph (d) of this section, you must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4) and (6), and 63.9(b) through (h) of subpart A that apply to you by the dates specified.	Y	
63.2515(b)(2)	(2) As specified in §63.9(b)(3), if you startup your new affected source on or after November 10, 2003, you must submit an initial notification not later than 120 calendar days after you become subject to this subpart.	Y	
63.2515(c)	(c) Notification of performance test. If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required in §63.7(b)(1). For any performance test required as part of the initial compliance procedures for batch process vents in table 2 to this subpart, you must also submit the test plan required by §63.7(c) and the emission profile with the notification of the performance test.	Y	

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63.2515(d)	Supplement to Notification of Compliance Status. You must also submit supplements to the Notification of Compliance Status as specified in §63.2520(d)(3) through (5).	Y	
63.2520	Reports	Y	
63.2520(a)	You must submit each report in Table 11 to this subpart that applies to you.	Y	
63.2520(b)	Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in table 11 to this subpart and according to paragraphs (b)(1) through (5) of this section.	Y	
63.2520(b)(1)	The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.2445 and ending on June 30 or December 31, whichever date is the first date following the end of the first 6 months after the compliance date that is specified for your affected source in §63.2445.	Y	
63.2520(b)(2)	The first compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the first reporting period specified in paragraph (b)(1) of this section.	Y	
63.2520(b)(3)	Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.	Y	
63.2520(b)(4)	Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period.	Y	
63.2520(b)(5)	For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.	Y	
63.2520(d)	(d) Notification of compliance status report. You must submit a notification of compliance status report according to the schedule in paragraph (d)(1) of this section, and the notification of compliance status report must contain the information specified in paragraphs (d)(2) through (5) of this section.	Y	
63.2520(d)(1)	You must submit the notification of compliance status report no later than 150 days after the applicable compliance date specified in §63.2445.	Y	
63.2520(d)(2)	(2) The notification of compliance status report must include the information in paragraphs (d)(2)(i) through (ix) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(d)(3)	For flares subject to the requirements of §63.2450(e)(5), you must also submit the information in this paragraph (d)(3) in a supplement to the Notification of Compliance Status within 150 days after the first applicable compliance date for flare monitoring. In lieu of the information required in §63.987(b) of subpart SS, the supplement to the Notification of Compliance Status must include flare design (e.g., steam-assisted, air-assisted, non-assisted, or pressure-assisted multi-point); all visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations made during the initial visible emissions demonstration required by §63.670(h) of subpart CC, as applicable; and all periods during the compliance determination when the pilot flame or flare flame is absent.	Y	
63.2520(d)(4)	For pressure relief devices subject to the pressure release management work practice standards in §63.2480(e)(3), you must also submit the information listed in paragraphs (d)(4)(i) and (ii) of this section in a supplement to the Notification of Compliance Status within 150 days after the first applicable compliance date for pressure relief device monitoring.	Y	
63.2520(d)(5)	For process vents, storage tanks, and equipment leaks subject to the requirements of §63.2493, you must also submit the information in this paragraph (d)(5) in a supplement to the Notification of Compliance Status within 150 days after the first applicable compliance date. The supplement to the Notification of Compliance Status must identify all process vents, storage tanks, and equipment that are in ethylene oxide service as defined in §63.2550, the method(s) used to control ethylene oxide emissions from each process vent and storage tank (i.e., use of a flare, scrubber, or other control device), the method(s) used to control ethylene oxide emissions from equipment (i.e., subpart UU or H of this part, or 40 CFR part 65, subpart F), and the information specified in paragraphs (d)(5)(i) through (iii) of this section.	Y	
63.2520(e)	Reporting requirements - compliance report submittal requirements and contents	Y	
63.2520(e)(1)	Company name and address.	Y	
63.2520(e)(2)	Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report. If your report is submitted via CEDRI, the certifier's electronic signature during the submission process replaces the requirement in this paragraph (e)(2).	Y	
63.2520(e)(3)	Date of report and beginning and ending dates of the reporting period. You are no longer required to provide the date of report when the report is submitted via CEDRI.	Y	

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63.2520(e)(4)	For each SSM during which excess emissions occur, the compliance report must include records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP, and include a brief description of each malfunction. On and after August 12, 2023, this paragraph (e)(4) no longer applies; however, for historical compliance purposes, a copy of the plan must be retained and available on-site for five years after August 12, 2023.	Y	
63.2520(e)(5)	The compliance report must contain the information on deviations, as defined in §63.2550, according to paragraphs (e)(5)(i), (ii), (iii), and (iv) of this section.	Y	
63.2520(e)(6)	If you use a CEMS, and there were no periods during which it was out-of-control as specified in §63.8(c)(7), include a statement that there were no periods during which the CEMS was out-of-control during the reporting period.	Y	
63.2520(e)(7)	Provisions for new operating scenarios which has been operated since the time period covered by the last compliance report and has not been submitted in the notification of compliance status report or a previous compliance report.	Y	
63.2520(e)(9)	Except as specified in §§63.2450(e)(4), 63.2480(f), and 63.2485(p) and (q) and paragraph (t) of this section, applicable records and information for periodic reports as specified in referenced subparts F, G, H, SS, UU, WW, and GGG of this part and subpart F of 40 CFR part 65.	Y	
63.2520(e)(10)	Except as specified in paragraph (e)(10)(ii) of this section, whenever you make a process change, or change any of the information submitted in the notification of compliance status report or a previous compliance report, that is not within the scope of an existing operating scenario, you must document the change in your compliance report. A process change does not include moving within a range of conditions identified in the standard batch, and a nonstandard batch does not constitute a process change.	Y	
63.2520(e)(11)	For each flare subject to the requirements in §63.2450(e)(5), the compliance report must include the items specified in paragraphs (e)(11)(i) through (vi) of this section in lieu of the information required in §63.999(c)(3) of subpart SS.	Y	
63.2520(e)(12)	For bypass lines subject to the requirements §63.2450(e)(6), the compliance report must include the start date, start time, duration in hours, estimate of the volume of gas in standard cubic feet, the concentration of organic HAP in the gas in parts per million by volume and the resulting mass emissions of organic HAP in pounds that bypass a control device. For periods when the flow indicator is not operating, report the start date, start time, and duration in hours.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)(14)	For any maintenance vent release exceeding the applicable limits in §63.2450(v)(1), the compliance report must include the information specified in paragraphs (e)(14)(i) through (iv) of this section. For the purposes of this reporting requirement, if you comply with §63.2450(v)(1)(iv) then you must report each venting event conducted under those provisions and include an explanation for each event as to why utilization of this alternative was required.	Y	
63.2520(e)(15)	Compliance reports for pressure relief devices subject to the requirements §63.2480(e) must include the information specified in paragraphs (e)(15)(i) through (iii) of this section.	Y	
63.2520(e)(16)	For each heat exchange system subject to §63.2490(d), beginning no later than the compliance dates specified in §63.2445(g), the reporting requirements of §63.104(f)(2) no longer apply; instead, the compliance report must include the information specified in paragraphs (e)(16)(i) through (v) of this section.	Y	
63.2520(e)(17)	For process vents and storage tanks in ethylene oxide service subject to the requirements of §63.2493, the compliance report must include elements identified at 63.2520(e)(17)(i) through (iii).	Y	
63.2520(f)	Performance test reports. Beginning no later than October 13, 2020, you must submit performance test reports in accordance with this paragraph (f). Unless otherwise specified in this subpart, within 60 days after the date of completing each performance test required by this subpart, you must submit the results of the performance test following the procedures specified in paragraphs (f)(1) through (3) of this section.	Y	
63.2520(g)	CEMS relative accuracy test audit (RATA) Performance evaluation reports. Beginning no later than October 13, 2020, you must start submitting CEMS RATA performance evaluation reports in accordance with this paragraph (g). Unless otherwise specified in this subpart, within 60 days after the date of completing each continuous monitoring system performance evaluation (as defined in §63.2), you must submit the results of the performance evaluation following the procedures specified in paragraphs (g)(1) through (3) of this section.	Y	
63.2520(h)	Claims of EPA system outage. If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with that reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (h)(1) through (7) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(i)	Claims of force majeure. If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to timely comply with that reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (i)(1) through (5) of this section.	Y	
63.2525	Recordkeeping - You must keep the records specified in paragraphs (a) through (t) of this section.	Y	
63.2525(a)	Except as specified in §§63.2450(e)(4), 63.2480(f), and 63.2485(p) and (q) and paragraph (t) of this section, each applicable record required by subpart A of this part and in referenced subparts F, G, SS, UU, WW, and GGG of this part and in referenced subpart F of 40 CFR part 65.	Y	
63.2525(b)	Records of each operating scenario as specified in paragraphs (b)(1) through (8) of this section.	Y	
63.2525(f)	A record of each time a safety device is opened to avoid unsafe conditions in accordance with §63.2450(p).	Y	
63.2525(g)	Records of the results of each CPMS calibration check and the maintenance performed, as specified in §63.2450(k)(1).	Y	
63.2525(h)	Except as specified in paragraph (l) of this section, for each CEMS, you must keep records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.	Y	
63.2525(j)	In the SSMP required by §63.6(e)(3) of subpart A, you are not required to include Group 2 emission points, unless those emission points are used in an emissions average. For equipment leaks, the SSMP requirement is limited to control devices and is optional for other equipment. On and after August 12, 2023, this paragraph (j) no longer applies.	Y	
63.2525(l)	Beginning no later than the compliance dates specified in §63.2445(g), paragraph (h) of this section no longer applies. Instead, for each deviation from an emission limit, operating limit, or work practice standard, you must keep a record of the information specified in paragraph (l)(1) through (3) of this section. The records shall be maintained as specified in §63.10(b)(1) of subpart A.	Y	
63.2525(m)	For each flare subject to the requirements in §63.2450(e)(5), you must keep records specified in paragraphs (m)(1) through (14) of this section in lieu of the information required in §63.998(a)(1) of subpart SS.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2525(n)	For each flow event from a bypass line subject to the requirements in §63.2450(e)(6), you must maintain records sufficient to determine whether or not the detected flow included flow requiring control. For each flow event from a bypass line requiring control that is released either directly to the atmosphere or to a control device not meeting the requirements specified in Tables 1 through 7 to this subpart, you must include an estimate of the volume of gas, the concentration of organic HAP in the gas and the resulting emissions of organic HAP that bypassed the control device using process knowledge and engineering estimates.	Y	
63.2525(p)	For each maintenance vent opening subject to the requirements in §63.2450(v), you must keep the applicable records specified in paragraphs (p)(1) through (5) of this section.	Y	
63.2525(q)	For each pressure relief device subject to the pressure release management work practice standards in §63.2480(e), you must keep the records specified in paragraphs (q)(1) through (3) of this section.	Y	
63.2525(r)	For each heat exchange system, beginning no later than the compliance dates specified in §63.2445(g), the recordkeeping requirements of §63.104(f)(1) no longer apply; instead, you must keep records in paragraphs (r)(1) through (4) of this section.	Y	
63.2525(t)	Any records required to be maintained by this part that are submitted electronically via the EPA's CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.	Y	
63.2525(u)	Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (u)(1) through (8) of this section do not apply when demonstrating compliance with paragraph (a) of this section.	Y	
63.2535	What compliance options do I have if part of my plant is subject to both this subpart and another subpart? For any equipment, emission stream, or wastewater stream not subject to §63.2493 but subject to other provisions of both this subpart and another subpart, you may elect to comply only with the provisions as specified in paragraphs (a) through (l) of this section. You also must identify the subject equipment, emission stream, or wastewater stream, and the provisions with which you will comply, in your notification of compliance status report required by §63.2520(d).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2535(c)	(c) Compliance with 40 CFR part 60, subpart Kb and 40 CFR part 61, subpart Y. After the compliance dates specified in §63.2445, you are in compliance with the provisions of this subpart FFFF for any storage tank that is assigned to an MCPU and that is both controlled with a floating roof and in compliance with the provisions of either 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y. You are in compliance with this subpart FFFF if you have a storage tank with a fixed roof, closed-vent system, and control device in compliance with the provisions of either 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y, except that you must comply with the monitoring, recordkeeping, and reporting requirements in this subpart FFFF. Alternatively, if a storage tank assigned to an MCPU is subject to control under 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y, you may elect to comply only with the requirements for Group 1 storage tanks in this subpart FFFF.	Y	
63.2535(k)	(k) Compliance with 40 CFR part 60, subpart VV or VVa, and 40 CFR part 61, subpart V. Except as specified in paragraphs (k)(1) and (2) of this section, after the compliance date specified in §63.2445, if you have an affected source with equipment that is also subject to the requirements of 40 CFR part 60, subpart VV or VVa, or 40 CFR part 61, subpart V, you may elect to apply this subpart to all such equipment. After the compliance date specified in §63.2445, if you have an affected source with equipment to which this subpart does not apply, but which is subject to the requirements of 40 CFR part 60, subpart VV or VVa, or 40 CFR part 61, subpart V, you may elect to apply this subpart to all such equipment. If you elect either of the methods of compliance in this paragraph (k), you must consider all total organic compounds, minus methane and ethane, in such equipment for purposes of compliance with this subpart, as if they were organic HAP. Compliance with the provisions of this subpart, in the manner described in this paragraph (k), will constitute compliance with 40 CFR part 60, subpart VV or VVa, and 40 CFR part 61, subpart V, as applicable.	Y	
63.2535(m)	Overlap of this subpart with other regulations for flares.	Y	
63.2535(m)(1)	At any time before the compliance dates specified in §63.2445(g), flares that are subject to the provisions of 40 CFR 60.18 or 63.11 and elect to comply with the requirements in §63.2450(e)(5) are required to comply only with the provisions specified in this subpart.	Y	
63.2535(m)(2)	Beginning no later than the compliance dates specified in §63.2445(g), flares subject to §63.987 and used as a control device for an emission point subject to the emission limits and work practice standards in Tables 1, 2, 4 or 5 to this subpart are only required to comply with §63.2450(e)(5).	Y	
63.2540	What parts of the General Provisions apply to me? Table 12 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2545	Who implements and enforces this subpart?	Y	
63.2550	What definitions apply to this subpart?	Y	
40 CFR 63 Subpart GGGGG	NESHAPS for Source Categories - Site Remediation (12/22/2022)		
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7881	Applicability: Am I subject to this subpart?	Y	
63.7881(a)	Applicability: Remediation subject to Subpart GGGGG if meets all three conditions below:	Y	
63.7881(a)(1)	(1) Site remediation cleans up a remediation material (63.7957 definition)	Y	
63.7881(a)(2)	(2) Facility with remediation activity also has one or more stationary sources that emit HAP and are in a source category that is regulated by another 40 CFR 63 subpart	Y	
63.7881(a)(3)	(3) Facility with remediation activity is a major source of HAP	Y	
63.7881(c)	Applicability: Recordkeeping only required if remediation activity meets conditions below:	Y	
63.7881(c)(1)	(1) Total HAP contained in remediation material at all remediation activities on site is less than 1 MG annually	Y	
63.7881(c)(2)	(2) Prepare and maintain documentation to support HAP determination	Y	
63.7881(c)(3)	(3) Title V requirements to include recordkeeping requirement	Y	
63.7881(d)	Applicability: Remediation not subject to Subpart GGGGG if remediation activities are complete and notifications of completion have been submitted. Records are required.	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(1)	Affected source: Process vents – from remediation processes (i.e., soil vapor extraction and bioremediation processes, thermal desorption, and air stripping)	Y	
63.7882(a)(2)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7882(a)(3)	Affected source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP >= 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards – each site remediation with affected sources	Y	
63.7884(a)	General Standards – comply with 63.7885 though 63.7955 as they apply to the affected sources	Y	
63.7884(b)	General Standards – requirements for remediations completed within 30 consecutive days	Y	
63.7885	Process Vents – General Standards	Y	
63.7885(a)	Select option and meet requirements of option selected	Y	
63.7885(b)	Options	Y	
63.7885(b)(1)	Option 1: Control HAPS per 63.7890 through 63.7893	Y	
63.7885(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 10 ppmw	Y	
63.7885(b)(3)	Option 3: For process vents subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the process vent is exempt from the other subpart	Y	
63.7885(c)	Exemptions from 63.7885(b)	Y	
63.7885(c)(1)(i)	Exemption 1: Process vent stream flow rate < 0.005 m ³ /min at standard conditions	Y	
63.7885(c)(1)(ii)	Exemption 2: Process vent stream flow rate < 6.0 m ³ /min at standard conditions and the total HAP concentration is < 20 ppmw	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7885(c)(2)	Exemption demonstration requirements	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	
63.7886(b)(1)(i)	Option 1a: Control HAP emissions for tanks	Y	
63.7886(b)(1)(ii)	Option 1b: Control HAP emissions for containers	Y	
63.7886(b)(1)(iii)	Option 1c: Control HAP emissions for surface impoundment	Y	
63.7886(b)(1)(iv)	Option 1d: Control HAP emissions for oil-water or organic-water separator	Y	
63.7886(b)(1)(v)	Option 1e: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(b)(4)	Option 4: Meet requirements for open tanks or surface impoundments used for biological treatment process	Y	
63.7886(d)	Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7890	Process Vents – Emission limits and work practice standards	Y	
63.7890(a)	Process Vents – Definition of affected sources	Y	

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63.7890(b)	Process Vents – Facility-wide emission limit options (can use both controlled and uncontrolled vent streams to achieve applicable facility-wide emission limit)	Y	
63.7890(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7890(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7890(c)	Process Vents – closed vent system and control device requirements	Y	
63.7891	Process Vents – Initial Compliance	Y	
63.7891(a)	Process Vents – Initial Compliance requirements	Y	
63.7891(b)	Process Vents – Measure emissions or use procedures in 63.7941 to demonstrate compliance with applicable option	Y	
63.7891(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7891(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7891(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7891(d)	Process Vents – Initial Compliance records per 63.7952	Y	
63.7892	Process Vents inspection and monitoring requirements	Y	
63.7893	Process Vents – Continuous Compliance	Y	
63.7893(a)	Process Vents – Continuous Compliance requirements	Y	
63.7893(b)	Process Vents – Maintain emission levels to meet facility-wide emission limits that apply for option chosen:	Y	
63.7893(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	

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63.7893(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7893(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7893(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7893(d)	Process Vents – Continuous Compliance records per 63.7952	Y	
63.7895	Tanks – Emission limits and work practice standards	Y	
63.7895(a)	Tanks – Emission limits and work practice standards	Y	
63.7895(b)	Tanks – Control requirements	Y	
63.7895(b)(1)	Rqmt 1: Determine maximum HAP vapor pressure	Y	
63.7895(b)(2)	Rqmt 2: If maximum HAP vapor pressure is less than 76.6 kPa, determine which tank level controls apply and meet the applicable requirements in paragraph 63.7895(c) or (d)	Y	
63.7895(b)(3)	Rqmt 3: If maximum HAP vapor pressure is greater than or equal to 76.6 kPa, then Tank Level 2 controls are required	Y	
63.7895(b)(4)	Rqmt 4: For tanks used for waste stabilization process, use Tank Level 2 controls	Y	
63.7895(c)	Tank Level 1 Controls: install and operate a fixed roof or chose Tank Level 2 controls	Y	
63.7895(d)	Tank Level 2 control options	Y	
63.7895(d)(1)	Option 1: Internal floating roof as specified	Y	
63.7895(d)(2)	Option 2: External floating roof as specified	Y	
63.7895(d)(3)	Option 3: Fixed roof with closed vent system and control device meeting standards in 63.7925	Y	
63.7895(d)(4)	Option 4: Pressure tank as specified	Y	
63.7895(d)(5)	Option 5: Total enclosure and vent emissions through closed vent system and control device meeting standards in 63.7925	Y	
63.7895(e)	Tank Level 2 control options – request approval for alternative	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7896	Tanks – Initial Compliance	Y	
63.7896(a)	Tanks – Initial Compliance requirements	Y	
63.7896(b)	Tanks – NCS must contain statement of compliance for these requirements	Y	
63.7896(b)(1)	Rqmt 1: Tank control levels have been determined	Y	
63.7896(b)(2)	Rqmt 2: Maximum HAP vapor pressure determined for each remediation material placed in each affected tank with Tank Level 1 controls	Y	
63.7896(c)	Tanks - Demonstrate initial compliance for tanks with Tank Level 1 controls	Y	
63.7896(c)(1)	Rqmt 1: Install fixed roof and closure devices per 63.902(a) with records documenting design	Y	
63.7896(c)(2)	Rqmt 2: Initial visual inspection for defects per 63.906(a) with inspection records	Y	
63.7896(c)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.902.	Y	
63.7896(d)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using internal floating roof tank	Y	
63.7896(d)(1)	Rqmt 1: Install internal floating roof per 63.1063(a) with records documenting design	Y	
63.7896(d)(2)	Rqmt 2: Initial visual inspection for defects per 63.1063(d)(1) with inspection records	Y	
63.7896(d)(3)	Rqmt 3: Operate internal floating roof per 63.1063(b).	Y	
63.7896(e)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using external floating roof tank	Y	
63.7896(e)(1)	Rqmt 1: Install external floating roof per 63.1063(a) with records documenting design	Y	
63.7896(e)(2)	Rqmt 3: Operate external floating roof per 63.1063(b).	Y	
63.7896(e)(3)	Rqmt 2: Initial seal gap measurement per 63.1063(d)(3) with records	Y	
63.7896(f)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using fixed roof tank with closed vent system and control device	Y	
63.7896(f)(1)	Rqmt 1: Install tank and control device per 63.902(b) and (c) with records documenting design	Y	
63.7896(f)(2)	Rqmt 2: Initial visual inspection for defects per 63.695(b)(3) with inspection records	Y	

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63.7896(f)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.685(g).	Y	
63.7896(g)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using pressure tank	Y	
63.7896(g)(1)	Rqmt 1: Install tank designed as pressure tank with records of design	Y	
63.7896(g)(2)	Rqmt 2: Operate pressure tank per 63.685(h)	Y	
63.7896(h)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using tank in total enclosure	Y	
63.7896(h)(1)	Rqmt 1: NCS requirement for total enclosure tanks	Y	
63.7896(h)(2)	Rqmt 2: Demonstrate initial compliance for closed vent system and control device	Y	
63.7897	Tanks – Inspection and Monitoring Requirements	Y	
63.7897(a)	Tank Level 1 Controls – annual visual inspection	Y	
63.7897(b)	Tank Level 2 Controls Options:=	Y	
63.7897(b)(1)	Option 1 – Internal Floating Roof – visual inspection requirements	Y	
63.7897(b)(2)	Option 2 – External floating roof – visual inspections and seal inspection requirements	Y	
63.7897(b)(3)	Option 3 – Fixed roof and control device requirements	Y	
63.7897(b)(3)(i)	Rqmt 1: Visual inspections of fixed roof and closures	Y	
63.7897(b)(3)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7897(b)(4)	Option 4 – Pressure tank – annual visual inspections	Y	
63.7897(b)(5)	Option 5 – Permanent total enclosure vented to enclosed combustion device	Y	
63.7897(b)(5)(i)	Rqmt 1: Annual verification procedure for permanent total enclosure	Y	
63.7897(b)(5)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7898	Tanks – Continuous compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7898(a)	Comply with applicable requirement in 63.7895	Y	
63.7898(b)	Comply with requirements to determine applicable tank control level (63.7895(b)) – Records required	Y	
63.7898(c)	Continuous compliance requirements for Tank Level 1 controls	Y	
63.7898(c)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(c)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(c)(3)	Rqmt 3: Repair defects	Y	
63.7898(c)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(c)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(d)	Continuous compliance requirements for Tank Level 2 controls – Internal floating roof tanks	Y	
63.7898(d)(1)	Rqmt 1: Operate and maintain the internal floating roof	Y	
63.7898(d)(2)	Rqmt 2: Visual inspection requirements	Y	
63.7898(d)(3)	Rqmt 3: Repair defects	Y	
63.7898(d)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(d)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(e)	Continuous compliance requirements for Tank Level 2 controls – External floating roof tanks	Y	
63.7898(e)(1)	Rqmt 1: Operate and maintain the external floating roof	Y	
63.7898(e)(2)	Rqmt 2: Visual inspection and seal inspection requirements	Y	
63.7898(e)(3)	Rqmt 3: Repair defects	Y	
63.7898(e)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(e)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(f)	Continuous compliance requirements for Tank Level 2 controls – Fixed roof vented to a control device	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7898(f)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(f)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(f)(3)	Rqmt 3: Repair defects	Y	
63.7898(f)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(f)(5)	Rqmt 5: Meet continuous compliance requirements	Y	
63.7898(f)(6)	Rqmt 6: Compliance documentation records	Y	
63.7898(g)	Continuous compliance requirements for Tank Level 2 controls – Pressure tank	Y	
63.7898(g)(1)	Rqmt 1: Operate and maintain the pressure tank and closure devices	Y	
63.7898(g)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(g)(3)	Rqmt 3: Compliance documentation records	Y	
63.7898(h)	Continuous compliance requirements for Tank Level 2 controls – permanent total enclosure vented to enclosed combustion device	Y	
63.7898(h)(1)	Rqmt 1: Annual verification procedure for enclosure	Y	
63.7898(h)(2)	Rqmt 2: Recordkeeping	Y	
63.7898(h)(3)	Rqmt 3: Meet continuous compliance requirements	Y	
63.7898(h)(3)	Rqmt 4: Compliance documentation records	Y	
63.7900	Containers – Emission limits and work practice standards	Y	
63.7900(a)	Containers – Definition of affected sources	Y	
63.7900(b)	Containers > 0.1 m3. Comply with 63.7900(b) or (d)	Y	
63.7900(b)(1)	Containers <= 0.46 m3; Container Level 1 per 63.922 or Container Level 2 per 63.923	Y	
63.7900(b)(2)	Containers > 0.46 m3; Option 1 - Container Level 2 controls per 63.923	Y	
63.7900(b)(3)	Containers > 0.46 m3; Option 2 – Allowances for Container Level 1 controls	Y	
63.7900(b)(3)(i)	Containers > 0.46 m3 require Container Level 1 controls if vapor pressure < 0.3 kPa at 20 C	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7900(b)(3)(ii)	Containers > 0.46 m3 require Container Level 1 controls if Total concentration of pure organic constituents with vapor pressure greater than 0.13 kPa at 20 C is less than 20% by weight	Y	
63.7900(c)	Containers used for treatment by waste stabilization process	Y	
63.7900(d)	Containers > 0.1 m3: Optional instead of 63.7999(b) – Container Level 3 and comply with requirements for closed vent system and control device	Y	
63.7900(e)	Alternatives to work practice standards	Y	
63.7901	Containers – Initial Compliance	Y	
63.7901(a)	Containers – Initial Compliance per 63.7990	Y	
63.7901(b)	Containers – Initial Compliance – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7901(b)(1)	Determined applicable container control levels	Y	
63.7901(b)(2)	Determined and recorded maximum vapor pressure or total organic concentration for containers > 0.46 m3 that do not use Container Level 2 or Level 3 controls	Y	
63.7901(c)	Demonstrate initial compliance for each container with Container Level 1 controls by certifying (c)(1) and (c)(2) in the notification of compliance status	Y	
63.7901(d)	Demonstrate initial compliance for each container with Container Level 2 controls by certifying (d)(1) thru (d)(4) in the notification of compliance status	Y	
63.7901(e)	Demonstrate initial compliance for each container with Container Level 3 controls by certifying (e)(1) and (e)(2) in the notification of compliance status	Y	
63.7902	Containers – Inspection and Monitoring Requirements	Y	
63.7902(a)	Inspect Container Level 1 or Container Level 2 contains IAW 63.926(a)	Y	
63.7902(b)	Meet Container Level 3 requirements as follows:	Y	
63.7902(b)(1)	Container Level 3: annual verification procedure	Y	
63.7902(b)(2)	Container Level 3: monitor and inspect closed vent system and control device IAW 63,7927	Y	
63.7903	Containers – Continuous Compliance	Y	
63.7903(a)	Containers – Continuous Compliance per 63.7990	Y	
63.7903(b)	Containers – Continuous Compliance with requirement to determine applicable container control level	Y	
63.7903(b)(1)	Records of containers	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7903(b)(2)	Containers > 0.46 m3 and using Container Level 1 controls – meet the following requirements:	Y	
63.7903(b)(2)(i)	Container Level 1 controls: Records of max vapor pressure or total organic concentration	Y	
63.7903(b)(2)(ii)	Container Level 1 controls: New determination when remediation material changes – keep records	Y	
63.7903(b)(3)	Records of compliance	Y	
63.7903(c)	Containers – Continuous Compliance Demonstration for Container Level 1 controls	Y	
63.7903(c)(1)	Covers	Y	
63.7903(c)(2)	Annual inspections	Y	
63.7903(c)(3)	Emptying or repairing	Y	
63.7903(c)(4)	Inspection records	Y	
63.7903(c)(4)(i)	Inspection records - Date	Y	
63.7903(c)(4)(ii)	Inspection records – Defect information	Y	
63.7903(c)(5)	Records of compliance	Y	
63.7903(d)	Containers – Continuous Compliance Demonstration for Container Level 2 controls	Y	
63.7903(d)(1)	Transferring material	Y	
63.7903(d)(2)	Covers	Y	
63.7903(d)(3)	Annual inspections	Y	
63.7903(d)(4)	Emptying or repairing	Y	
63.7903(d)(5)	Records of inspections	Y	
63.7903(d)(5)(i)	Inspection records - Date	Y	
63.7903(d)(5)(ii)	Inspection records – Defect information	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7903(d)(6)	Records of compliance	Y	
63.7903(e)	Containers – Continuous Compliance Demonstration for Container Level 3 controls	Y	
63.7903(e)(1)	Annual verification procedure	Y	
63.7903(e)(2)	Records per 63.696(f)	Y	
63.7903(e)(3)	Comply with 63.7928	Y	
63.7903(e)(4)	Records of compliance	Y	
63.7910	Separators – Emission limits and work practice standards	Y	
63.7910(a)	Separators – Definition of affected sources	Y	
63.7910(b)	Separators – Install and operate air pollution controls	Y	
63.7910(b)(1)	Separator controls – Option 1: Floating roof (fixed roof allowed where floating roof infeasible)	Y	
63.7910(b)(2)	Separator controls – Option 2: Fixed roof vented to control device	Y	
63.7910(b)(3)	Separator controls – Option 3: Pressurized separator	Y	
63.7910(c)	Separators – Alternatives may be approved	Y	
63.7911	Separators – Initial Compliance	Y	
63.7911(a)	Separators – Initial compliance per 63.7910	Y	
63.7911(b)	Separators with floating roof – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(b)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(b)(2)	Operate floating roof and closure devices per 63.1043(c)	Y	
63.7911(b)(3)	Initial seal gap measurement performed and records available	Y	
63.7911(b)(4)	Initial visual inspection performed and records available	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7911(b)(5)	Fixed roof portions meet requirements of 63.7901(c)	Y	
63.7911(c)	Separators with fixed roof vented to control device – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(c)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(c)(2)	Operate fixed roof and closure devices per 63.1042(c)	Y	
63.7911(c)(3)	Initial visual inspection performed and records available	Y	
63.7911(c)(4)	Initial compliance demonstrated with emission limits and work practice standards	Y	
63.7911(d)	Separators - Pressurized – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(d)(1)	Records documenting design and installation of pressurized separator	Y	
63.7911(d)(2)	Operate pressurized separator per 63.1045(b)(3)	Y	
63.7912	Separators – Inspection and monitoring requirements	Y	
63.7912(a)	Separators – Inspection and monitoring requirements – Floating roof	Y	
63.7912(a)(1)	Annual seal gap measurement	Y	
63.7912(a)(2)	Annual visual inspection	Y	
63.7912(b)	Separators – Inspection and monitoring requirements – Cover vented to control device	Y	
63.7912(b)(1)	Visual inspection of cover and closure device	Y	
63.7912(b)(2)	Closed vent system and control device monitoring and inspection	Y	
63.7912(c)	Separators – Inspection and monitoring requirements – Pressurized separator	Y	
63.7913	Separators – Continuous compliance	Y	
63.7913(a)	Separators – Continuous compliance requirements	Y	
63.7913(b)	Separators with floating roof – Continuous compliance	Y	
63.7913(b)(1)	Operate and maintain floating roof	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7913(b)(2)	Annual seal gap measurements	Y	
63.7913(b)(3)	Annual visual inspections	Y	
63.7913(b)(4)	Repair defects	Y	
63.7913(b)(5)	Recordkeeping	Y	
63.7913(b)(6)	Compliance documentation records	Y	
63.7913(c)	Separators with fixed roof vented to control device – Continuous compliance	Y	
63.7913(c)(1)	Operate and maintain fixed roof and closure device	Y	
63.7913(c)(2)	Annual visual inspections	Y	
63.7913(c)(3)	Repair defects	Y	
63.7913(c)(4)	Recordkeeping	Y	
63.7913(c)(5)	Compliance documentation records	Y	
63.7913(d)	Separators - pressurized	Y	
63.7913(d)(1)	Operating at all times as required	Y	
63.7913(d)(2)	Annual visual inspection	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	
63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7925	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(a)	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(b)	Closed Vent Systems and Control Devices – operate control device at all times when gases or vapors containing HAP are vented to it except:	Y	
63.7925(b)(1)	Bypass allowed for planned routine maintenance up to 240 hours per calendar year	Y	
63.7925(b)(2)	Bypass allowed to correct malfunction of closed-vent system or control device – as soon as practicable after malfunction	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7925(c)	Closed Vent Systems and Control Devices – comply with emission limits and work practice standards	Y	
63.7925(d)	Closed Vent Systems and Control Devices for facility-wide process vent emission limits – requirements	Y	
63.7925(d)(1)	Option 1: Reduce total HAP (or TOC minus methane and ethane) emissions by 95%	Y	
63.7925(d)(2)	Option 2: Limit concentration of total HAP or TOC (minus methane and ethane) to 20 ppmvd or less @ 3% O ₂	Y	
63.7925(f)	Closed Vent Systems and Control Devices – process heater or boiler requirements	Y	
63.7925(f)(1)	Option 1: Introduce vent stream into flame zone; residence time >= 0.5 seconds and temperature >= 760C	Y	
63.7925(f)(2)	Option 2: Introduce vent stream with primary fuel	Y	
63.7925(f)(3)	Option 3: Introduce vent stream into permitted boiler or process heater complying with 40 CFR 266 Subpart H – Hazardous Waste Burned in Boilers and Industrial Furnaces	Y	
63.7925(g)	Closed Vent Systems and Control Devices – control device operating limits	Y	
63.7925(g)(1)	Regenerable carbon adsorption system requirements	Y	
63.7925(g)(2)	Nonregenerable carbon adsorption system requirements	Y	
63.7925(g)(3)	Condenser requirements	Y	
63.7925(g)(4)	Thermal incinerator requirements	Y	
63.7925(g)(5)	Catalytic incinerator requirements	Y	
63.7925(g)(6)	Boiler or process heater requirements	Y	
63.7925(h)	Closed Vent Systems and Control Devices – carbon absorption system work practice standards	Y	
63.7925(h)(1)	Regenerable carbon adsorption system work practices	Y	
63.7925(h)(2)	Nonregenerable carbon adsorption system work practices	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7925(h)(3)	Nonregenerable carbon adsorption system alternative practices	Y	
63.7925(i)	Closed Vent Systems and Control Devices – catalytic incinerator work practice standards	Y	
63.7925(j)	Closed Vent Systems and Control Devices – alternative work practice standards	Y	
63.7926	Closed Vent Systems and Control Devices – Initial compliance	Y	
63.7926(a)	Closed Vent Systems and Control Devices – Initial compliance with 63.7925 requirements	Y	
63.7926(b)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for these closed vent system requirements	Y	
63.7926(b)(1)	Rqmt 1: Closed vent system installation and records	Y	
63.7926(b)(2)	Rqmt 2: Initial inspection of closed vent system and records	Y	
63.7926(c)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for control devices for facility-wide process vent emission control requirements	Y	
63.7926(c)(1)	Option 1: Document 95% control of emissions demonstrated in performance test or design evaluation	Y	
63.7926(c)(2)	Option 2: Document max emissions <= 20 ppmvd @ 3% O2 demonstrated in performance test or design evaluation	Y	
63.7926(d)	Closed Vent Systems and Control Devices – initial compliance demonstration - control device operating limits	Y	
63.7926(d)(1)	Rqmt 1: Establish appropriate operating limit(s) for each applicable operating parameter for control device per 63.7925(g)	Y	
63.7926(d)(2)	Rqmt 1: Record of applicable operating parameter data during performance test or design evaluation when emissions met applicable limit	Y	
63.7926(e)	Closed Vent Systems and Control Devices – carbon adsorption system – spent carbon replacement and disposal work practice standards - NCS must contain statement of compliance	Y	
63.7926(f)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards - NCS must contain statement of compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7926(h)	Closed Vent Systems and Control Devices – records demonstrating compliance with boiler or process heater work practice standards in 63.7925(f) - NCS must contain statement of compliance	Y	
63.7927	Closed vent system and control devices – inspection and monitoring requirements	Y	
63.7927(a)	Closed vent system and control devices – Closed vent system inspection and monitoring requirements	Y	
63.7927(a)(1)	Rqmt 1: Inspection and monitoring options	Y	
63.7927(a)(2)	Rqmt 2: Closed vent system bypass device requirements	Y	
63.7927(b)	Closed vent system and control devices – Regenerable carbon adsorption system inspection and monitoring requirements	Y	
63.7927(b)(1)	Rqmt 1: Use CPMS to measure and record hourly average total regeneration stream flow during carbon adsorption cycle	Y	
63.7927(b)(2)	Rqmt 2: Use CPMS to measure and record hourly average temperature during regeneration	Y	
63.7927(b)(3)	Rqmt 3: Use CPMS to measure and record hourly average temperature of adsorption bed after regeneration	Y	
63.7927(c)	Closed vent system and control devices – Nonregenerable carbon adsorption system inspection and monitoring requirements – CPMS – organic compounds in exhaust	Y	
63.7927(d)	Closed vent system and control devices – Condenser inspection and monitoring requirements – CPMS – exit temperature	Y	
63.7927(e)	Closed vent system and control devices – Thermal incinerator inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(f)	Closed vent system and control devices – Catalytic incinerator inspection and monitoring requirements – CPMS – two temperature sensors – inlet and outlet	Y	
63.7927(g)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(i)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – if introduced into flame zone, then CPMS – combustion zone temperature	Y	
63.7928	Closed vent system and control devices – continuous compliance	Y	
63.7928(a)	Closed vent system and control devices – continuous compliance requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7928(b)	Closed vent system and control devices – closed vent system continuous compliance with 63.7925(c) requirements	Y	
63.7928(b)(1)	Closed vent system designed for no detectable emissions - annual monitoring and inspection	Y	
63.7928(b)(2)	Closed vent system designed for to operate below atmospheric pressure – annual visual inspection	Y	
63.7928(b)(3)	Closed vent system – repair defects	Y	
63.7928(b)(4)	Closed vent system – inspection records	Y	
63.7928(b)(5)	Closed vent system – optional monitoring records	Y	
63.7928(b)(6)	Closed vent system bypass device – flow detector records, if applicable	Y	
63.7928(b)(7)	Closed vent system bypass device – monthly inspections of seal or closure mechanism, if applicable	Y	
63.7928(c)	Closed vent system and control devices – control device continuous compliance with 63.7925(d) requirements	Y	
63.7928(c)(1)	For 63.7925(d)(1) limit: maintain emission reduction $\geq 95\%$	Y	
63.7928(c)(2)	For 63.7925(d)(2) limit: maintain emissions ≤ 20 ppmvd @ 3% O ₂	Y	
63.7928(d)	Closed vent system and control devices – control device continuous compliance with 63.7925(g) requirements	Y	
63.7928(d)(1)	Maintain each operating limit as applicable to control device	Y	
63.7928(d)(2)	Monitor and inspect control device per 63.7927 as applicable	Y	
63.7928(d)(3)	Operate and maintain each CPMS per 63.7945 and collect and reduce data per 63.7946	Y	
63.7928(d)(4)	Recordkeeping	Y	
63.7928(e)	Closed Vent Systems and Control Devices – regenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(f)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7928(g)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards – alternative standards	Y	
63.7928(h)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards	Y	
63.7928(j)	Closed Vent Systems and Control Devices –process heater work practice standards continuous compliance demonstration	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(a)	Requirements for existing sources with performance tests or design evaluations	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration - Comply with applicable methods for affected sources	Y	
63.7941(b)	Initial Compliance Demonstration - Requirements for performance tests	Y	
63.7941(c)	Initial Compliance Demonstration - Requirements for design evaluation of control devices (carbon, condenser, vapor incinerator, boiler, process heater)	Y	
63.7941(d)	Initial Compliance Demonstration - Monitoring requirements during performance tests and design evaluations	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7941(e)	Initial Compliance Demonstration – Process heater or boiler performance test requirements	Y	
63.7941(f)	Initial Compliance Demonstration – CPMS performance tests	Y	
63.7941(g)	Initial Compliance Demonstration – Requirements for visual inspections of affected sources	Y	
63.7941(i)	Initial Compliance Demonstration – Requirements for Container Level 2 tests	Y	
63.7941(j)	Initial Compliance Demonstration – Requirements for permanent total enclosures with control devices	Y	
63.7941(k)	Initial Compliance Demonstration – Requirements for Separators	Y	
63.7941(m)	Initial Compliance Demonstration – Reporting requirements for performance test or design evaluation	Y	
63.7942	Subsequent performance test requirements	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7945	Continuous Monitoring Systems – installation, operation, and maintenance requirements	Y	
63.7945(a)	CPMS requirements	Y	
63.7945(a)(1)	Must complete a minimum of one cycle of operation each successive 15-minute period	Y	
63.7945(a)(2)	Data availability requirements for valid hourly average	Y	
63.7945(a)(3)	Data availability requirements for valid averaging period	Y	
63.7945(a)(4)	CPMS must determine hourly average or daily average, if required	Y	
63.7945(b)	Records of each inspection, calibration, and validation check	Y	
63.7945(c)	Performance evaluation requirements	Y	
63.7946	Monitor and collect data to demonstrate continuous compliance	Y	
63.7946(a)	Monitor and collect data per 63.7946 and site-specific monitoring plan	Y	
63.7946(b)	Monitor continuously (or at required intervals) at all times that affected source is operating except for monitor malfunctions, associated repairs, and required QA activities (calibration, etc.)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7946(c)	Do not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required QA activities in data averages and calculations. Such data may not be used to fulfill a minimum data availability requirement.	Y	
63.7947	Monitoring alternatives		
63.7947(a)	Use CEMS in place of a CPMS to measure control device outlet total organic emissions or organic HAP emissions concentration.		
63.7947(b)	Maintain the daily (24-hour) average total organic or HAP emissions concentration in exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test		
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7950(c)	Initial Notification – new or reconstructed affected source	Y	
63.7950(d)	Notification requirement – 60 days prior to performance tests	Y	
63.7950(e)	Notification of Compliance Status – required if performance test, design evaluation , or other initial compliance demonstration is required	Y	
63.7950(f)	Notification of alternative standard selected	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(3)	Records required: Performance tests and performance evaluations	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	

Table IV – A.1
Source-specific Applicable Requirements

Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7952(b)	Records required: CPMS	Y	
63.7952(b)(1)	Records required: CPMS records per 63.10(b)(2)	Y	
63.7952(b)(2)	Records required: CPMS performance evaluation plans	Y	
63.7952(c)	Records required: Continuous compliance demonstration records for all applicable requirements	Y	
63.7952(d)	Records required: Semiannual records (63.696(g) for planned routine maintenance of a control device for emissions from process vents	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
BAAQMD Condition 8077	See Table IV – M.1		
BAAQMD Condition 18379	Facility Wide Permit Conditions		
Part 1	Limitation to use ERCs from banking application #3180 (permanent closure of S-940) only for Facility B2758. (Basis: Regulation 2, Rule 4, Section 302.1)	Y	
BAAQMD Condition 19528	Facility Wide Permit Conditions		
Part 12	Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 12A	Record Keeping Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	

Table IV – A.1
Source-specific Applicable Requirements

Facility B2758 - Refinery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 27583	Facility Wide Permit Conditions		
Part 1	Prohibit use of various sources in the process of unloading renewable feedstock, producing renewable fuels, loading renewable fuels, handling waste related to renewable fuels production or processing, or any other activities associated with the Renewable Fuels Project. (Basis: Regulation 2-1-403 Permit Conditions)	Y	
Part 2	S850, S1003, S1007, S1008, and S2025 shall not process any crude oil feedstock and/or petroleum based material. (Basis: Regulation 2-1-403 Permit Conditions)	Y	
Part 6	Facility’s total annual benzene quantity from facility waste. (Basis: 40 CFR Part 61, Subpart FF, §61.340 - Applicability)	Y	
Part 18	Measure true vapor pressure of renewable diesel on a weekly basis. (Basis: Regulation 2-1-403 Permit Conditions, Regulations 2-1-301/302)	Y	
Part 19	Alternative compliance to Part 18. (Basis: Regulation 2-1-403 Permit Conditions)	Y	
Part 22	Conduct monthly sampling to ensure aqueous solution contains less than 1 percent (by weight) organic compounds. (Basis: Regulation 2-1-123.2)	Y	
Part 25	Maintain, update and implement the Odor Prevention and Management Plan. (Basis: Regulation 2-1-403 Permit Condition, CEQA)	Y	

Table IV – A.2
Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2 Rule 1	Permits, General Requirements (12/15/2021)		
2-1-429	Federal Emissions Statement	Y	
BAAQMD Regulation 8 Rule 5	Organic Compounds – Storage of Organic Liquids (11/03/2021)		
8-5-117	Limited Exemption, Low Vapor Pressure	N	
8-5-119	Limited Exemption, Repair Period	N	
8-5-118	Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters; Use 90% abatement device	N	
8-5-331	Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used	N	
8-5-332	Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service)	N	
8-5-332.1	Sludge Handling Requirements; sludge container no leaks	N	
8-5-332.2	Sludge Handling Requirements; sludge container gap requirements	N	
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N	
8-5-411	Enhanced Monitoring Program (Optional)	N	
8-5-411.1	Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program	N	
8-5-411.2	Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program	N	
8-5-501	Records	N	
8-5-501.3	Records; Retention	N	
8-5-501.4	Records; New PV setpoints	N	
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N	
8-5-502.2	Source Test Requirements; Tank degassing and cleaning abatement devices	N	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

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Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-603	Determination of Abatement Efficiency	N	
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y	
SIP Regulation 8 Rule 5	Organic Compounds – Storage of Organic Liquids (06/05/2003)		
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	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-404	Certification	Y	
8-5-501	Records	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 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (06/15/2005)		
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-402	Reporting, Excavation of Contaminated Soil	Y	
8-40-403	Reporting, Excavation of Contaminated Soil	Y	
8-40-404	Reporting, Contaminated Soil Excavation During Organic Liquid Service Pipeline Leak Repairs	Y	
8-40-405	Reporting, Contaminated Soil Excavations Unrelated to Underground Storage Tank Activities	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-602	Measurement of Organic Content	Y	
8-40-604	Measurement of Organic Concentration	Y	
8-40-605	Analysis of Samples Initial Boiling Point	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (11/03/2021)		
9-1-110	Conditional Exemption, Area Monitoring	Y	

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Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/06/1999)		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements (Applies only when ground level monitors are not operating or are out of compliance.)	N	
9-2-601	Ground Level Monitoring	N	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources – Incorporated by reference (02/16/2000)		
10-1	Subpart A – General Provisions (12/20/1995)	Y	
10-17	Subpart Kb – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984	Y	
BAAQMD Regulation 11 Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1995)	Y	
40 CFR 60 Subpart A	NSPS - General Provisions (5/3/2023)		
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	

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Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR 60 Subpart Kb	NSPS – 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. (01/19/2021)		
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	
60.113b(b)(2)	Primary seal gap standards	Y	
60.113b(b)(3)	Secondary seal gap standards	Y	
60.113b(b)(4)	Seal gap measurement methods	Y	
40 CFR 61 Subpart A	NESHAPS, General Provisions (09/24/2018)		
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	

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Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.14	Monitoring Reports	Y	
61.15	Modification	Y	
61.18	Incorporation by reference	Y	
61.19	Circumvention	Y	
40 CFR 61 Subpart FF	NESHAPS, Benzene Waste Operations (12/04/2003) Requirements for Treat to 6 (6BQ) [61.342(e)] facility		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(c)	Applicability: Exempt Waste	Y	
61.340(d)	Applicability: Exemption from Subpart FF for emissions routed to a fuel gas system	Y	
61.341	Definitions	Y	
61.342	Standards: General	Y	
61.342(a)	Standards: Definition of total annual benzene (TAB) & requirements to calculate	Y	
61.342(a)(2)	Standards: TAB Calculation – Material Sold	Y	
61.342(a)(3)	Standards: TAB Calculation – Remediation Waste	Y	
61.342(a)(4)	Standards: TAB Calculation – Determination Location	Y	
61.342(b)	Standards: General; Facility with TAB > 10Mg/year compliance dates	Y	
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y	
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y	
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	Y	
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y	

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Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.342(e)(2)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat aqueous waste (flow-weighted annual average water content of 10% or more by volume) per 61.342(e)(2).	Y	
61.342(e)(2)(i)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Benzene content of aqueous waste must be equal to or less than 6.0 Mg/yr (6.6 ton/yr), as determined in 61.355(k).	Y	
61.342(e)(2)(ii)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Aqueous waste: Determine 61.342(e)(2) benzene quantity [TBQ] per 61.355(k).	Y	
61.343(a)	Standards: Tanks	Y	
61.343(a)(1)	Standards: Tanks: Fixed roof with closed vent routed to control device	Y	
61.343(a)(1)(i)	Standards: Tanks: Fixed roof requirements	Y	
61.343(a)(1)(i)(A)	Standards: Tanks: Fixed roof and openings: No detectable emissions	Y	
61.343(a)(1)(i)(B)	Standards: Tanks: Fixed roof requirements; openings closed and sealed except when in use	Y	
61.343(a)(1)(ii)	Standards: Tanks: Closed vent system and control device: design and operate per 61.349	Y	
61.343(b)	Standards: Tanks: Alternative standards for certain fixed roof tanks storing non-aqueous wastes (low vapor pressure or small tanks)	Y	
61.343(c)	Standards: Tanks: Quarterly Visual Inspection	Y	
61.343(d)	Standards: Tanks: Repairs	Y	
61.345(a)	Standards: Containers	Y	
61.345(a)(1)	Standards: Containers - Covers	Y	
61.345(a)(1)(i)	Standards: Containers— No detectable emissions	Y	
61.345(a)(1)(ii)	Standards: Containers - Openings closed and sealed except when in use	Y	
61.345(a)(2)	Standards: Containers - Waste Transfer	Y	
61.345(b)	Standards: Containers - Quarterly visual inspection	Y	
61.345(c)	Standards: Containers - Repairs	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.353	Alternative means of emission limitation	Y	
61.355	Test Methods, Procedures, and Compliance Provisions	Y	

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Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(a)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB)	Y	
61.355(a)(1)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); aqueous wastes	Y	
61.355(a)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Annual Waste Quantity Determination	Y	
61.355(a)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Annual Average Benzene Determination	Y	
61.355(a)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Annual Benzene Quantity Calculation	Y	
61.355(a)(2)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); TAB Calculation	Y	
61.355(a)(3)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); If the TAB is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner/operator shall comply with 61.342(c), (d), or (e).	Y	
61.355(a)(6)	Test Methods, Procedures, and Compliance Provisions: Procedure for determining total annual benzene (TAB); Turnaround Waste in TAB	Y	
61.355(b)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – made at point of generation unless an exception applies	Y	
61.355(b)(1)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination location – Exception: Sour water strippers	Y	
61.355(b)(4)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination – Exception: Process Unit Turnaround Waste	Y	
61.355(b)(5)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity from Historical Records	Y	
61.355(b)(6)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Design Capacity	Y	
61.355(b)(7)	Test Methods, Procedures, and Compliance Provisions: Waste quantity determination methods – Waste Quantity based on Representative Measurements	Y	
61.355(c)	Test Methods, Procedures, and Compliance Provisions: Determine flow-weighted annual average benzene concentration	Y	
61.355(c)(1)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration	Y	

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Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(c)(1)(i)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Made at the point of waste generation except for cases in paragraphs (c)(1)(i)(A) through (D) of this section.	Y	
61.355(c)(1)(i)(A)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration Exception: Sour water stripper	Y	
61.355(c)(1)(i)(D)	Test Methods, Procedures, and Compliance Provisions: Criteria for determination of flow-weighted annual average benzene concentration – Exception: Process Unit Turnaround wastes	Y	
61.355(c)(1)(ii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Volatilization of benzene by exposure to air shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iii)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Mixing or diluting with other wastes or materials shall not be used to reduce the benzene concentration	Y	
61.355(c)(1)(iv)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: Determination made prior to any treatment of waste that removes benzene, except in (c)(1)(i)(A) through (D) of this section	Y	
61.355(c)(1)(v)	Test Methods, Procedures, and Compliance Provisions: Determination of benzene concentration: For wastes with multiple phases, provide the weighted-average benzene concentration based on the benzene concentration in each phase and the relative proportion of the phases	Y	
61.355(c)(2)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Knowledge of the Waste	Y	
61.355(c)(3)	Test Methods, Procedures, and Compliance Provisions: Methods to determine benzene concentration: Measurements of Benzene Concentration - procedures		
61.355(h)	Test Methods, Procedures, and Compliance Provisions: No detectable emissions test methods	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(1)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in uncontrolled waste streams	Y	

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Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.355(k)(2)(ii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 2: Determination for wastes discharged from facility	Y	
61.355(k)(2)(iii)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 3: Determination for wastes transferred offsite.	Y	
61.355(k)(2)(iv)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine annual waste quantity of controlled wastes using procedures in 61.355(b)(5), (6), or (7)	Y	
61.355(k)(2)(v)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine flow-weighted annual average benzene concentration for controlled wastes using procedures in 61.355(c)(2), or (3)	Y	
61.355(k)(3)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Determine benzene quantity in waste generated less than one time per year	Y	
61.355(k)(5)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 TBQ calculation method for controlled wastestreams	Y	
61.355(k)(6)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Treat to 6 total TBQ calculation method	Y	
61.355(k)(7)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; Eliminate double counting	Y	
61.356	Recordkeeping Requirements	Y	
61.356(a)	Recordkeeping requirements; Retention	Y	
61.356(b)	Recordkeeping requirements; Waste stream records	Y	
61.356(b)(1)	Recordkeeping requirements; Uncontrolled Waste Stream Records	Y	
61.356(b)(4)	Recordkeeping requirements; Treat to 6 (61.342(e)) Waste Stream Records	Y	
61.356(b)(5)	Recordkeeping requirements; Process unit turnaround waste records	Y	

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Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.356(c)	Recordkeeping requirements; Offsite Waste Transfer Records	Y	
61.356(g)	Recordkeeping Requirements: Visual inspections 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	
61.357	Reporting Requirements	Y	
61.357(a)(1)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: TAB determined in accordance with 61.355(a)	Y	
61.357(a)(2)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Waste stream table (identify as controlled or uncontrolled)	Y	
61.357(a)(3)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data	Y	
61.357(a)(3)(i)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the water content of the waste stream is greater than 10 percent;	Y	
61.357(a)(3)(ii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;	Y	
61.357(a)(3)(iii)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual waste quantity for the waste stream;	Y	
61.357(a)(3)(iv)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Range of benzene concentrations for the waste stream;	Y	
61.357(a)(3)(v)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual average flow-weighted benzene concentration for the waste stream; and	Y	
61.357(a)(3)(vi)	Reporting Requirements - Annual Benzene Report Contents [61.357(d)(2)]: Uncontrolled waste stream data - Annual benzene quantity for the waste stream.	Y	
61.357(a)(4)	Reporting Requirements: Annual Benzene Report contents	Y	

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Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.357(c)	If the total annual benzene quantity from facility waste is less than 10 Mg/yr (11 ton/yr) but is equal to or greater than 1 Mg/yr (1.1 ton/yr), then the owner or operator shall submit to the Administrator a report that updates the information listed in paragraphs (a)(1) through (a)(3) of this section. The report shall be submitted annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. If the information in the annual report required by paragraphs (a)(1) through (a)(3) of this section is not changed in the following year, the owner or operator may submit a statement to that effect.	Y	
61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
61.357(d)(2)	Reporting Requirements: Annual Benzene Report – with information specified in 61.357(a)(1), (2), and (3)	Y	
61.357(d)(5)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements	Y	
61.357(d)(5)(i)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – uncontrolled waste streams	Y	
61.357(d)(5)(ii)	Reporting Requirements: Annual Benzene Report requirements if complying with 61.342(e)- Treat to 6 waste stream data requirements – controlled waste streams	Y	
61.357(d)(6)	Reporting Requirements: Quarterly Inspection Verification Report	Y	
61.357(d)(7)	Reporting Requirements: Quarterly Report	Y	
61.357(d)(7)(iv)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices	Y	
61.357(d)(7)(iv)(C)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Process Heater Operation Low Temperature	Y	
61.357(d)(7)(iv)(G)	Reporting Requirements: Quarterly Report; Records of Operation Outside of Range; Control Devices; Change in Heater Design	Y	
61.357(d)(8)	Reporting Requirements: Annual Inspection Report – Inspection Summary when detectable emissions detected	Y	
61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
61.357(g)	Reporting Requirements for 61.352 tank seal gaps	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart A	NESHAPs for Source Categories - General Provisions (03/11/2021)		
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance test requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.12	State Authority and Delegations	Y	
63.13	Addresses of EPA Regional Offices	Y	
63.14	Incorporation by Reference	Y	
63.15	Availability of Information and confidentiality	Y	
63.16	Performance Track Provisions	Y	
40 CFR 63 Subpart B	NESHAPs for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005)		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	Y	
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart SS	National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process (07/06/2020) (Requirements for certain tanks subject to 40 CFR 63 Subparts EEEE and FFFF)		
63.983	Closed vent systems	Y	
63.983(a)	(a) Closed vent system equipment and operating requirements. Except for closed vent systems operated and maintained under negative pressure, the provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.	Y	
63.983(a)(1)	(1) Collection of emissions. Each closed vent system shall be designed and operated to collect the regulated material vapors from the emission point, and to route the collected vapors to a control device.	Y	
63.983(a)(2)	(2) Period of operation. Closed vent systems used to comply with the provisions of this subpart shall be operated at all times when emissions are vented to, or collected by, them.	Y	
63.983(a)(3)	(3) Bypass monitoring. Except for equipment needed for safety purposes such as pressure relief devices, low leg drains, high point bleeds, analyzer vents, and open-ended valves or lines, the owner or operator shall comply with the provisions of either paragraphs (a)(3)(i) or (ii) of this section for each closed vent system that contains bypass lines that could divert a vent stream to the atmosphere.	Y	
63.983(a)(3)(i)	(i) Properly install, maintain, and operate a flow indicator that is capable of taking periodic readings. Records shall be generated as specified in §63.998(d)(1)(ii)(A). The flow indicator shall be installed at the entrance to any bypass line.	Y	
63.983(a)(3)(ii)	(ii) Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Records shall be generated as specified in §63.998(d)(1)(ii)(B).	Y	
63.983(b)	(b) Closed vent system inspection and monitoring requirements. The provisions of this subpart apply to closed vent systems collecting regulated material from a regulated source. Inspection records shall be generated as specified in §63.998(d)(1)(iii) and (iv) of this section.	Y	
63.983(b)(1)	(1) Except for any closed vent systems that are designated as unsafe or difficult to inspect as provided in paragraphs (b)(2) and (3) of this section, each closed vent system shall be inspected as specified in paragraph (b)(1)(i) or (ii) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(b)(1)(i)	(i) If the closed vent system is constructed of hard-piping, the owner or operator shall comply with the requirements specified in paragraphs (b)(1)(i)(A) and (B) of this section.	Y	
63.983(b)(1)(i)(A)	(A) Conduct an initial inspection according to the procedures in paragraph (c) of this section; and	Y	
63.983(b)(1)(i)(B)	(B) Conduct annual inspections for visible, audible, or olfactory indications of leaks.	Y	
63.983(b)(1)(ii)	(ii) If the closed vent system is constructed of ductwork, the owner or operator shall conduct an initial and annual inspection according to the procedures in paragraph (c) of this section.	Y	
63.983(b)(2)	(2) Any parts of the closed vent system that are designated, as described in §63.998(d)(1)(i), as unsafe to inspect are exempt from the inspection requirements of paragraph (b)(1) of this section if the conditions of paragraphs (b)(2)(i) and (ii) of this section are met.	Y	
63.983(b)(2)(i)	(i) The owner or operator determines that the equipment is unsafe-to-inspect because inspecting personnel would be exposed to an imminent or potential danger as a consequence of complying with paragraph (b)(1) of this section; and	Y	
63.983(b)(2)(ii)	(ii) The owner or operator has a written plan that requires inspection of the equipment as frequently as practical during safe-to-inspect times. Inspection is not required more than once annually.	Y	
63.983(b)(3)	(3) Any parts of the closed vent system that are designated, as described in §63.998(d)(1)(i), as difficult-to-inspect are exempt from the inspection requirements of paragraph (b)(1) of this section if the provisions of paragraphs (b)(3)(i) and (ii) of this section apply.	Y	
63.983(b)(3)(i)	(i) The owner or operator determines that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters (7 feet) above a support surface; and	Y	
63.983(b)(3)(ii)	(ii) The owner or operator has a written plan that requires inspection of the equipment at least once every 5 years.	Y	
63.983(b)(4)	(4) For each bypass line, the owner or operator shall comply with paragraph (b)(4)(i) or (ii) of this section.	Y	
63.983(b)(4)(i)	(i) If a flow indicator is used, take a reading at least once every 15 minutes.	Y	
63.983(b)(4)(ii)	(ii) If the bypass line valve is secured in the non-diverting position, visually inspect the seal or closure mechanism at least once every month to verify that the valve is maintained in the non-diverting position, and the vent stream is not diverted through the bypass line.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(c)	(c) Closed vent system inspection procedures. The provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.	Y	
63.983(c)(1)	(1) Each closed vent system subject to this paragraph shall be inspected according to the procedures specified in paragraphs (c)(1)(i) through (vii) of this section.	Y	
63.983(c)(1)(i)	(i) Inspections shall be conducted in accordance with Method 21 of 40 CFR part 60, appendix A, except as specified in this section.	Y	
63.983(c)(1)(ii)	(ii) Except as provided in (c)(1)(iii) of this section, the detection instrument shall meet the performance criteria of Method 21 of 40 CFR part 60, appendix A, except the instrument response factor criteria in section 3.1.2(a) of Method 21 must be for the representative composition of the process fluid and not of each individual VOC in the stream. For process streams that contain nitrogen, air, water, or other inerts that are not organic HAP or VOC, the representative stream response factor must be determined on an inert-free basis. The response factor may be determined at any concentration for which the monitoring for leaks will be conducted.	Y	
63.983(c)(1)(iii)	(iii) If no instrument is available at the plant site that will meet the performance criteria of Method 21 specified in paragraph (c)(1)(ii) of this section, the instrument readings may be adjusted by multiplying by the representative response factor of the process fluid, calculated on an inert-free basis as described in paragraph (c)(1)(ii) of this section.	Y	
63.983(c)(1)(iv)	(iv) The detection instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21 of 40 CFR part 60, appendix A.	Y	
63.983(c)(1)(v)	(v) Calibration gases shall be as specified in paragraphs (c)(1)(v)(A) through (C) of this section.	Y	
63.983(c)(1)(v)(A)	(A) Zero air (less than 10 parts per million hydrocarbon in air); and	Y	
63.983(c)(1)(v)(B)	(B) Mixtures of methane in air at a concentration less than 10,000 parts per million. A calibration gas other than methane in air may be used if the instrument does not respond to methane or if the instrument does not meet the performance criteria specified in paragraph (c)(1)(ii) of this section. In such cases, the calibration gas may be a mixture of one or more of the compounds to be measured in air.	Y	
63.983(c)(1)(v)(C)	(C) If the detection instrument's design allows for multiple calibration scales, then the lower scale shall be calibrated with a calibration gas that is no higher than 2,500 parts per million.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(c)(1)(vi)	(vi) An owner or operator may elect to adjust or not adjust instrument readings for background. If an owner or operator elects not to adjust readings for background, all such instrument readings shall be compared directly to 500 parts per million to determine whether there is a leak. If an owner or operator elects to adjust instrument readings for background, the owner or operator shall measure background concentration using the procedures in this section. The owner or operator shall subtract the background reading from the maximum concentration indicated by the instrument.	Y	
63.983(c)(1)(vii)	(vii) If the owner or operator elects to adjust for background, the arithmetic difference between the maximum concentration indicated by the instrument and the background level shall be compared with 500 parts per million for determining whether there is a leak.	Y	
63.983(c)(2)	(2) The instrument probe shall be traversed around all potential leak interfaces as described in Method 21 of 40 CFR part 60, appendix A.	Y	
63.983(c)(3)	(3) Except as provided in paragraph (c)(4) of this section, inspections shall be performed when the equipment is in regulated material service, or in use with any other detectable gas or vapor.	Y	
63.983(c)(4)	(4) Inspections of the closed vent system collecting regulated material from a transfer rack shall be performed only while a tank truck or railcar is being loaded or is otherwise pressurized to normal operating conditions with regulated material or any other detectable gas or vapor.	Y	
63.983(d)	(d) Closed vent system leak repair provisions. The provisions of this paragraph apply to closed vent systems collecting regulated material from a regulated source.	Y	
63.983(d)(1)	(1) If there are visible, audible, or olfactory indications of leaks at the time of the annual visual inspections required by paragraph (b)(1)(i)(B) of this section, the owner or operator shall follow the procedure specified in either paragraph (d)(1)(i) or (ii) of this section.	Y	
63.983(d)(1)(i)	(i) The owner or operator shall eliminate the leak.	Y	
63.983(d)(1)(ii)	(ii) The owner or operator shall monitor the equipment according to the procedures in paragraph (c) of this section.	Y	
63.983(d)(2)	(2) Leaks, as indicated by an instrument reading greater than 500 parts per million by volume above background or by visual inspections, shall be repaired as soon as practical, except as provided in paragraph (d)(3) of this section. Records shall be generated as specified in §63.998(d)(1)(iii) when a leak is detected.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.983(d)(2)(i)	(i) A first attempt at repair shall be made no later than 5 days after the leak is detected.	Y	
63.983(d)(2)(ii)	(ii) Except as provided in paragraph (d)(3) of this section, repairs shall be completed no later than 15 days after the leak is detected or at the beginning of the next introduction of vapors to the system, whichever is later.	Y	
63.983(d)(3)	(3) Delay of repair of a closed vent system for which leaks have been detected is allowed if repair within 15 days after a leak is detected is technically infeasible or unsafe without a closed vent system shutdown, as defined in §63.981, or if the owner or operator determines that emissions resulting from immediate repair would be greater than the emissions likely to result from delay of repair. Repair of such equipment shall be completed as soon as practical, but not later than the end of the next closed vent system shutdown.	Y	
63.984	Fuel gas systems and processes to which storage vessel, transfer rack, or equipment leak regulated material emissions are routed	Y	
63.984(a)	(a) Equipment and operating requirements for fuel gas systems and processes.	Y	
63.984(a)(1)	(1) Except during periods of start-up, shutdown and malfunction as specified in the referencing subpart, the fuel gas system or process shall be operating at all times when regulated material emissions are routed to it.	Y	
63.984(b)	(b) Fuel gas system and process compliance assessment.	Y	
63.984(b)(1)	(1) If emissions are routed to a fuel gas system, there is no requirement to conduct a performance test or design evaluation.	Y	
63.984(b)(2)	(2) If emissions are routed to a process, the regulated material in the emissions shall meet one or more of the conditions specified in paragraphs (b)(2)(i) through (iv) of this section. The owner or operator of storage vessels subject to this paragraph shall comply with the compliance demonstration requirements in paragraph (b)(3) of this section.	Y	
63.984(b)(2)(i)	(i) Recycled and/or consumed in the same manner as a material that fulfills the same function in that process;	Y	
63.984(b)(2)(ii)	(ii) Transformed by chemical reaction into materials that are not regulated materials;	Y	
63.984(b)(2)(iii)	(iii) Incorporated into a product; and/or	Y	
63.984(b)(2)(iv)	(iv) Recovered.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.984(b)(3)	(3) To demonstrate compliance with paragraph (b)(2) of this section for a storage vessel, the owner or operator shall prepare a design evaluation (or engineering assessment) that demonstrates the extent to which one or more of the conditions specified in paragraphs (b)(2)(i) through (iv) of this section are being met.	Y	
63.984(c)	(c) Statement of connection. For storage vessels and transfer racks, the owner or operator shall submit the statement of connection reports for fuel gas systems specified in §63.999(b)(1)(ii), as appropriate.	Y	
40 CFR 63 Subpart WW	NESHAPS for Source Categories: National Emission Standards for Storage Vessels (Tanks)—Control Level 2 (07/12/2002) (Requirements for Tanks subject to 40 CFR 63 Subparts EEEE and FFFF)		
63.1060	Applicability: These requirements apply to storage tanks subject to control requirements under 40 CFR Part 63 Subparts EEEE and FFFF, and achieve compliance with those subparts by meeting the floating roof storage tank requirements of Subpart WW.	Y	
63.1061	Definitions	Y	
63.1062	Storage vessel control requirements	Y	
63.1062(a)	For each storage vessel to which this subpart applies, comply with one of the requirements listed in paragraphs (a)(1) through (a)(3).	Y	
63.1062(a)(1)	Operate and maintain an IFR.	Y	
63.1062(a)(2)	Operate and maintain an EFR.	Y	
63.1063	Standards: Floating Roof Storage Tanks	Y	
63.1063(a)(1)(i)	Floating roof rim seal standards for internal floating roof storage tanks.	Y	
63.1063(a)(1)(ii)	Floating roof rim seal standards for external floating roof storage tanks.	Y	
63.1063(a)(2)	Floating roof rim seal standards for both internal and external floating roof tanks.	Y	
63.1063(b)	Operational requirements for all floating roof storage tanks.	Y	
63.1063(c)(1)	Internal floating roof tank inspection frequency standards.	Y	
63.1063(c)(2)	External floating roof tank inspection and seal gap measurement frequency standards.	Y	
63.1063(d)(1)	Complete inspection procedure requirements for all floating roof tanks.	Y	
63.1063(d)(2)	Visual inspection procedure for internal floating roof visual inspection from openings in the fixed roof.	Y	
63.1063(d)(3)	Seal gap measurement procedures for external floating roof tank.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1063(e)	Repair requirements for deficiencies identified during inspections of floating roof storage tanks.	Y	
63.1065	Recordkeeping requirements	Y	
63.1065(a)	Maintain records of all storage tanks' dimensions, capacity, and stored liquid(s).	Y	
63.1065(b)	Maintain records of all storage tank inspections.	Y	
63.1065(c)	Maintain records of all floating roof landing and refloating events.	Y	
63.1065(d)	Maintain records of all delay-of-repair extensions utilized.	Y	
63.1066	Reporting requirements	Y	
63.1066(a)	Notification of initial startup	Y	
63.1066(b)	Periodic reports	Y	
40 CFR 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) (11/19/2020)	Y	
63.2334	Am I subject to this subpart?	Y	
63.2334(a)	Except as provided for in paragraphs (b) and (c) of this section, you are subject to this subpart if you own or operate an OLD operation that is located at, or is part of, a major source of HAP emissions.	Y	
63.2338	What parts of my plant does this subpart cover?	Y	
63.2338(a)	This subpart applies to each new, reconstructed, or existing OLD operation affected source.	Y	
63.2338(b)	Except as provided in paragraph (c) of this section, the affected source is the collection of activities and equipment used to distribute organic liquids into, out of, or within a facility that is a major source of HAP.	Y	
63.2338(b)(1)	(1) All storage tanks storing organic liquids	Y	
63.2338(b)(3)(i)	All equipment leak components in organic liquids service associated with tanks subject to this subpart.	Y	
63.2338(c)	Equipment excluded from the affected source.	Y	
63.2342	When do I have to comply with this subpart?	Y	
63.2342(b)	Schedule for an existing source. Compliance required with emission limitations, operating limits, and work practice standards no later than February 3, 2004.	Y	
63.2342(d)	You must meet the notification requirements in §§63.2343 and 63.2382(a), as applicable, according to the schedules in §63.2382(a) and (b)(1) through (3) and in subpart A of this part.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2343	What are my requirements for emission sources not requiring control?	Y	
63.2343(a)	Requirements for storage tanks with a capacity less than 5,000 gallons.	Y	
63.2343(b)	Requirements for storage tanks with a capacity greater than 5,000 gallons.	Y	
63.2343(d)	Events requiring submission of a subsequent Compliance report.	Y	
63.2346	What emission limitations, operating limits, and work practice standards must I meet?	Y	
63.2346(a)	Requirements for storage tanks.	Y	
63.2346(c)	Requirements for equipment leak components.	Y	
63.2346(e)	Operating limits for tanks and transfer racks.	Y	
63.2346(i)	Opening of a safety device	Y	
63.2346(l)	Startup, shutdown, and malfunction. Beginning no later than the compliance dates specified in §63.2342(e), the referenced provisions specified in paragraphs (l)(1) through (20) of this section do not apply when demonstrating compliance with subpart H of this part, subpart SS of this part, subpart TT of this part, and subpart UU of this part.	Y	
63.2350	What are my general requirements for complying with this subpart?	Y	
63.2350(a)	You must be in compliance with the emission limitations, operating limits, and work practice standards in this subpart at all times when the equipment identified in §63.2338(b)(1) through (4) is in OLD operation.	Y	
63.2350(b)	You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).	Y	
63.2350(c)	Except for emission sources not required to be controlled as specified in §63.2343, you must develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions in §63.6(e)(3).	Y	
63.2354	What performance tests, design evaluations, and performance evaluations must I conduct?	Y	
63.2354(c)	Approved methods for determining the HAP content of an organic liquid.	Y	
63.2358	By what date must I conduct performance tests and other initial compliance demonstrations?	Y	
63.2358(a)	Schedule to conduct initial performance tests and design evaluations.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2358(b)	Schedule to comply with emission limitations for storage tanks and transfer racks. Initial compliance with emissions limitations by February 5, 2007, except as provided in b(1)(i) and (b)(1)(ii) of this section.	Y	
63.2358(c)	Schedule for storage tanks and transfer racks to comply with work practice standard in Table 4 of this subpart.	Y	
63.2358(d)	Schedule for reconstructed or new storage tanks, transfer racks, and equipment leak components with work practice standards in Table 4 of this subpart. Initial compliance demonstration within 180 days of initial startup date for the affected source.	Y	
63.2366	What are my monitoring installation, operation, and maintenance requirements?	Y	
63.2366(a)	Requirement to install continuous monitoring system (CMS) on each control device required in order to comply with this subpart.	Y	
63.2366(b)	Requirements for nonflare devices controlling storage tanks and low throughput transfer racks.	Y	
63.2370	How do I demonstrate initial compliance with the emission limitations, operating limits, and work practice standards?	Y	
63.2370(a)	You must demonstrate initial compliance with each emission limitation and work practice standard that applies to you as specified in tables 6 and 7 to this subpart.	Y	
63.2370(c)	You must submit the results of the initial compliance determination in the Notification of Compliance Status according to the requirements in §63.2382(d).	Y	
63.2378	How do I demonstrate continuous compliance with the emission limitations, operating limits, and work practice standards?		
63.2378(a)	You must demonstrate continuous compliance with each emission limitation, operating limit, and work practice standard in Tables 2 through 4 to this subpart that applies to you according to the methods specified in subpart SS of this part and in tables 8 through 10 to this subpart, as applicable.	Y	
63.2378(b)	Requirements during periods of startup, shutdown, malfunction, or nonoperation of the affected source.	Y	
63.2378(c)	Limitations on hours of maintenance of a control device when the control device does not meet emission limits in table 2 of this subpart.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2378(d)	Except as specified in paragraph (e) of this section, if you route emissions from storage tanks or transfer racks to a fuel gas system or to a process, as allowed by §63.982(d), to comply with the emission limits in Table 2 to this subpart, the total aggregate amount of time during which the emissions bypass the fuel gas system or process during the calendar year without being routed to a control device, for all reasons (except SSM or product changeovers of flexible operation units and periods when a storage tank has been emptied and degassed), must not exceed 240 hours.	Y	
63.2378(e)	Beginning no later than the compliance dates specified in §63.2342(e), paragraphs (b) through (d) of this section no longer apply. Instead, you must be in compliance with each emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section at all times, except during periods of nonoperation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies and must comply with the requirements specified in paragraphs (e)(1) through (5) of this section, as applicable. Equipment subject to the work practice standards for equipment leak components in Table 4 to this subpart, item 4 are not subject to this paragraph (e).	Y	
63.2380	What are my requirements for certain flares?	Y	
63.2380(a)	(a) Beginning no later than the compliance dates specified in §63.2342(e), if you reduce organic HAP emissions by venting emissions through a closed vent system to a steam-assisted, air-assisted, or non-assisted flare to control emissions from a storage tank, low throughput transfer rack, or high throughput transfer rack that is subject to control based on the criteria specified in Tables 2 or 2b to this subpart, then the flare requirements specified in §63.11(b); subpart SS of this part; the provisions specified in items 7.a through 7.d of Table 3 to this subpart; Table 8 to this subpart; and the provisions specified in items 1.a.iii and 2.a.iii, and items 7.a through 7.d.2 of Table 9 to this subpart no longer apply. Instead, you must meet the applicable requirements for flares as specified in §§63.670 and 63.671, including the provisions in Tables 12 and 13 to subpart CC of this part, except as specified in paragraphs (b) through (m) of this section. For purposes of compliance with this paragraph, the following terms are defined in §63.641: Assist air, assist steam, center steam, combustion zone, combustion zone gas, flare, flare purge gas, flare supplemental gas, flare sweep gas, flare vent gas, lower steam, net heating value, perimeter assist air, pilot gas, premix assist air, total steam, and upper steam.	Y	
63.2380(b)	The following phrases in §63.670(c) do not apply.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2380(c)	The phrase “and the flare vent gas flow rate is less than the smokeless design capacity of the flare” in §63.670(d) does not apply.	Y	
63.2380(d)	Section 63.670(j)(6)(ii) does not apply. Instead submit the information required by §63.670(j)(6)(ii) with the Notification of Compliance Status according to §63.2382(d)(2)(ix).	Y	
63.2380(e)	Section 63.670(o) does not apply.	Y	
63.2380(f)	Substitute “pilot flame or flare flame” or each occurrence of “pilot flame.”	Y	
63.2380(g)	Substitute “affected source” for each occurrence of “petroleum refinery.”	Y	
63.2380(h)	Each occurrence of “refinery” does not apply.	Y	
63.2380(i)	You may elect to comply with the alternative means of emissions limitation requirements specified in §63.670(r) in lieu of the requirements in §63.670(d) through (f), as applicable. However, instead of complying with §63.670(r)(3)(iii), you must also submit the alternative means of emissions limitation request to the following address: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, U.S. EPA Mailroom (E143-01), Attention: Organic Liquids Distribution Sector Lead, 109 T.W. Alexander Drive, Research Triangle Park, NC 27711. Electronic copies in lieu of hard copies may also be submitted to oldtr@epa.gov.	Y	
63.2380(j)	If you choose to determine compositional analysis for net heating value with a continuous process mass spectrometer, then you must comply with the requirements specified in paragraphs (j)(1) through (7) of this section.	Y	
63.2380(k)	If you use a gas chromatograph or mass spectrometer for compositional analysis for net heating value, then you may choose to use the CE of NHV measured versus the cylinder tag value NHV as the measure of agreement for daily calibration and quarterly audits in lieu of determining the compound-specific CE.	Y	
63.2380(l)	Instead of complying with §63.670(p), you must keep the flare monitoring records specified in §63.2390(h).	Y	
63.2380(m)	Instead of complying with §63.670(q), you must comply with the reporting requirements specified in §63.2382(d)(2)(ix) and §63.2386(d)(5).	Y	
63.2382	What notifications must I submit and when and what information should be submitted?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2382(a)	You must submit each notification in subpart SS of this part, table 12 to this subpart, and paragraphs (b) through (d) of this section that applies to you. You must submit these notifications according to the schedule in table 12 to this subpart and as specified in paragraphs (b) through (d) of this section.	Y	
63.2382(b)	Initial notification requirements.	Y	
63.2382(c)	Notification requirements for performance tests.	Y	
63.2382(d)	When Notice of Compliance Status must be submitted.	Y	
63.2386	What reports must I submit and when and what information is to be submitted in each.	Y	
63.2386(a)	You must submit each report in subpart SS of this part, Table 11 to this subpart, table 12 to this subpart, and in paragraphs (c) through (j) of this section that applies to you.	Y	
63.2386(b)	Schedule for reporting.	Y	
63.2386(c)	Requirements for first compliance report.	Y	
63.2386(d)	Requirements for subsequent compliance reports.	Y	
63.2386(e)	Reporting Title V deviations.	Y	
63.2386(f)	Beginning no later than the compliance dates specified in §63.2342(e), submit all Compliance reports to the EPA via CEDRI.	Y	
63.2386(g)	Beginning no later than the compliance dates specified in §63.2342(e), submit performance test reports in accordance with this paragraph.	Y	
63.2386(h)	Beginning no later than the compliance dates specified in §63.2342(e), submit performance evaluation reports in accordance with this paragraph.	Y	
63.2386(i)	EPA CDX outage provisions	Y	
63.2386(j)	Force majeure provisions	Y	
63.2390	What records must I keep?	Y	
63.2390(a)	Recordkeeping requirements for sources not requiring control under this subpart.	Y	
63.2390(b)	Recordkeeping requirements for sources requiring control under this subpart.	Y	
63.2390(d)	Recordkeeping requirement for total actual annual facility organic liquid loading volume.	Y	
63.2390(e)	Recordkeeping requirements for an owner/operator electing to comply with 63.2346(a)(4).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2390(f)	Beginning no later than the compliance dates specified in §63.2342(e), for each deviation from an emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section, you must keep a record of the information specified in paragraph (f)(1) through (3) of this section.	Y	
63.2390(g)	Beginning no later than the compliance dates specified in §63.2342(e), for each flow event from a bypass line subject to the requirements in §63.2378(e)(1) and (2), you must maintain records sufficient to determine whether or not the detected flow included flow requiring control.	Y	
63.2390(h)	Beginning no later than the compliance dates specified in §63.2342(e), for each flare subject to the requirements in §63.2380, you must keep records specified in paragraphs (h)(1) through (10) of this section in lieu of the information required in §63.998(a)(1).	Y	
63.2394	In what form and how long must I keep my records?	Y	
63.2394(a)	Your records must be in a form suitable and readily available for expeditious inspection and review according to §63.10(b)(1), including records stored in electronic form at a separate location.	Y	
63.2394(b)	Requirement to maintain records for 5 years.	Y	
63.2394(c)	Requirement to maintain records onsite for 2 years. Records may be kept offsite for the remaining 3 years.	Y	
63.2396	What compliance options do I have if part of my plant is subject to both this subpart and another subpart?	Y	
63.2396(a)	Compliance with other regulations for storage tanks.	Y	
63.2396(b)	Compliance with other regulations for transfer racks.	Y	
63.2396(c)	Compliance with other regulations for equipment leak components.	Y	
63.2396(d)	Overlap of subpart EEEE with other regulations for flares for the OLD source category.	Y	
63.2396(e)	Overlap with regulations for monitoring, recordkeeping, and reporting.	Y	
63.2398	What parts of the General Provisions apply to me? Table 12 shows the portions of the General Provisions that apply.	Y	
63.2406	What definitions apply to this subpart?	Y	
40 CFR 63 Subpart FFFF	NESHAPS for Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2435	Am I subject to the requirements in this subpart?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2435(a)	You are subject to this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at a major source of HAP.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	The miscellaneous organic chemical manufacturing affected source facilitywide collection of MCPU and heat exchange systems, wastewater, and waste management units that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2445	When do I have to comply with this subpart?	Y	
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(g)	All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with 63.2445(g)(1 – 7) upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2450	What are my general requirements for complying with this subpart?	Y	
63.2450(m)	Reporting	Y	
63.2450(p)	Original safety device requirements. Except as specified in 63.2450(t), opening a safety device, as defined in §63.2550, is allowed at any time conditions require it to avoid unsafe conditions.	Y	
63.2450(t)	New safety device requirements. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (p) of this section no longer applies. Instead, you must comply with the requirements specified in §63.2480(e).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(u)	General duty - Beginning no later than the compliance dates specified in §63.2445(g), at all times, you must 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. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	
63.2450(v)	Maintenance vents - Beginning no later than the compliance dates specified in §63.2445(g), you may designate a process vent as a maintenance vent if the vent is only used as a result of startup, shutdown, maintenance, or inspection of equipment where equipment is emptied, depressurized, degassed, or placed into service. You must comply with the applicable requirements in paragraphs (v)(1) through (3) of this section for each maintenance vent. Any vent designated as a maintenance vent is only subject to the maintenance vent provisions in this paragraph (v) and the associated recordkeeping and reporting requirements in §§63.2525(p) and 63.2520(e)(14), respectively. You do not need to designate a maintenance vent as a Group 1 or Group 2 process vent nor identify maintenance vents in a Notification of Compliance Status report.	Y	
63.2470	Storage tank provisions	Y	
63.2480	Equipment leaks	Y	
63.2485	Wastewater streams and liquid streams in open systems within an MCPU	Y	
63.2492	How do I determine whether my process vent, storage tank, or equipment is in ethylene oxide service? To determine if process vents, storage tanks, and equipment leaks are in ethylene oxide service as defined in §63.2550(i), you must comply with the requirements in paragraphs (a) through (c) of this section, as applicable.	Y	
63.2492(a)	For each batch process vent or continuous process vent stream, you must measure the flow rate and concentration of ethylene oxide of each process vent as specified in paragraphs (a)(1) through (5) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2492(b)	For storage tanks, you must measure the concentration of ethylene oxide of the fluid stored in the storage tanks using Method 624.1 of 40 CFR part 136, appendix A, or preparation by Method 5031 and analysis by Method 8260D (both incorporated by reference, see §63.14) in the SW-846 Compendium. In lieu of preparation by SW-846 Method 5031, you may use SW-846 Method 5030B (incorporated by reference, see §63.14), as long as: You do not use a preservative in the collected sample; you store the sample with minimal headspace as cold as possible and at least below 4 degrees C; and you analyze the sample as soon as possible, but in no case longer than 7 days from the time the sample was collected. If you are collecting a sample from a pressure vessel, you must maintain the sample under pressure both during and following sampling.	Y	
63.2492(c)	For equipment leaks, you must comply with the requirements in paragraphs (c)(1) through (4) of this section.	Y	
63.2493	What requirements must I meet for process vents, storage tanks, or equipment that are in ethylene oxide service?	Y	
63.2500	How do I comply with emissions averaging?	Y	
63.2505	How do I comply with the alternative standard? As an alternative to complying with the emission limits and work practice standards for process vents and storage tanks in Tables 1 through 4 to this subpart and the requirements in §§63.2455 through 63.2470, you may comply with the emission limits in paragraph (a) of this section and demonstrate compliance in accordance with the requirements in paragraph (b) of this section.	Y	
63.2515	What notifications must I submit and when?	Y	
63.2515(a)	General. Except as specified in paragraph (d) of this section, you must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e) and (f)(4) and (6), and 63.9(b) through (h) of subpart A that apply to you by the dates specified.	Y	
63.2515(b)(2)	(2) As specified in §63.9(b)(3), if you startup your new affected source on or after November 10, 2003, you must submit an initial notification not later than 120 calendar days after you become subject to this subpart.	Y	
63.2515(d)	Supplement to Notification of Compliance Status. You must also submit supplements to the Notification of Compliance Status as specified in §63.2520(d)(3) through (5).	Y	
63.2520	Reports	Y	
63.2520(a)	You must submit each report in Table 11 to this subpart that applies to you.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(b)	Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in table 11 to this subpart and according to paragraphs (b)(1) through (5) of this section.	Y	
63.2520(d)	(d) Notification of compliance status report. You must submit a notification of compliance status report according to the schedule in paragraph (d)(1) of this section, and the notification of compliance status report must contain the information specified in paragraphs (d)(2) through (5) of this section.	Y	
63.2520(e)	Reporting requirements - compliance report submittal requirements and contents	Y	
63.2520(h)	Claims of EPA system outage. If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with that reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (h)(1) through (7) of this section.	Y	
63.2520(i)	Claims of force majeure. If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to timely comply with that reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (i)(1) through (5) of this section.	Y	
63.2525	Recordkeeping You must keep the records specified in paragraphs (a) through (t) of this section.	Y	
63.2535	What compliance options do I have if part of my plant is subject to both this subpart and another subpart? For any equipment, emission stream, or wastewater stream not subject to §63.2493 but subject to other provisions of both this subpart and another subpart, you may elect to comply only with the provisions as specified in paragraphs (a) through (l) of this section. You also must identify the subject equipment, emission stream, or wastewater stream, and the provisions with which you will comply, in your notification of compliance status report required by §63.2520(d).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2535(c)	(c) Compliance with 40 CFR part 60, subpart Kb and 40 CFR part 61, subpart Y. After the compliance dates specified in §63.2445, you are in compliance with the provisions of this subpart FFFF for any storage tank that is assigned to an MCPU and that is both controlled with a floating roof and in compliance with the provisions of either 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y. You are in compliance with this subpart FFFF if you have a storage tank with a fixed roof, closed-vent system, and control device in compliance with the provisions of either 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y, except that you must comply with the monitoring, recordkeeping, and reporting requirements in this subpart FFFF. Alternatively, if a storage tank assigned to an MCPU is subject to control under 40 CFR part 60, subpart Kb, or 40 CFR part 61, subpart Y, you may elect to comply only with the requirements for Group 1 storage tanks in this subpart FFFF.	Y	
63.2535(k)	(k) Compliance with 40 CFR part 60, subpart VV or VVa, and 40 CFR part 61, subpart V. Except as specified in paragraphs (k)(1) and (2) of this section, after the compliance date specified in §63.2445, if you have an affected source with equipment that is also subject to the requirements of 40 CFR part 60, subpart VV or VVa, or 40 CFR part 61, subpart V, you may elect to apply this subpart to all such equipment. After the compliance date specified in §63.2445, if you have an affected source with equipment to which this subpart does not apply, but which is subject to the requirements of 40 CFR part 60, subpart VV or VVa, or 40 CFR part 61, subpart V, you may elect to apply this subpart to all such equipment. If you elect either of the methods of compliance in this paragraph (k), you must consider all total organic compounds, minus methane and ethane, in such equipment for purposes of compliance with this subpart, as if they were organic HAP. Compliance with the provisions of this subpart, in the manner described in this paragraph (k), will constitute compliance with 40 CFR part 60, subpart VV or VVa, and 40 CFR part 61, subpart V, as applicable.	Y	
63.2540	What parts of the General Provisions apply to me? Table 12 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.	Y	
63.2545	Who implements and enforces this subpart?	Y	
63.2550	What definitions apply to this subpart?	Y	
40 CFR 63 Subpart GGGG	NESHAPS for Source Categories - Site Remediation (12/22/2022)		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7881	Applicability: Am I subject to this subpart?	Y	
63.7881(a)	Applicability: Remediation subject to Subpart GGGGG if meets all three conditions below:	Y	
63.7881(a)(1)	(1) Site remediation cleans up a remediation material (63.7957 definition)	Y	
63.7881(a)(2)	(2) Facility with remediation activity also has one or more stationary sources that emit HAP and are in a source category that is regulated by another 40 CFR 63 subpart	Y	
63.7881(a)(3)	(3) Facility with remediation activity is a major source of HAP	Y	
63.7881(c)	Applicability: Recordkeeping only required if remediation activity meets conditions below:	Y	
63.7881(c)(1)	(1) Total HAP contained in remediation material at all remediation activities on site is less than 1 MG annually	Y	
63.7881(c)(2)	(2) Prepare and maintain documentation to support HAP determination	Y	
63.7881(c)(3)	(3) Title V requirements to include recordkeeping requirement	Y	
63.7881(d)	Applicability: Remediation not subject to Subpart GGGGG if remediation activities are complete and notifications of completion have been submitted. Records are required.	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(1)	Affected source: Process vents – from remediation processes (i.e., soil vapor extraction and bioremediation processes, thermal desorption, and air stripping)	Y	
63.7882(a)(2)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	Affected source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP >= 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards	Y	
63.7884(a)	General Standards – comply with 63.7885 though 63.7955 as they apply to the affected sources	Y	
63.7884(b)	General Standards – requirements for remediations completed within 30 consecutive days	Y	
63.7885	Process Vents – General Standards	Y	
63.7885(a)	Select option and meet requirements of option selected	Y	
63.7885(b)	Options	Y	
63.7885(b)(1)	Option 1: Control HAPS per 63.7890 through 63.7893	Y	
63.7885(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 10 ppmw	Y	
63.7885(b)(3)	Option 3: For process vents subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the process vent is exempt from the other subpart	Y	
63.7885(c)	Exemptions from 63.7885(b)	Y	
63.7885(c)(1)(i)	Exemption 1: Process vent stream flow rate < 0.005 m ³ /min at standard conditions	Y	
63.7885(c)(1)(ii)	Exemption 2: Process vent stream flow rate < 6.0 m ³ /min at standard conditions and the total HAP concentration is < 20 ppmw	Y	
63.7885(c)(2)	Exemption demonstration requirements	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	
63.7886(b)(1)(i)	Option 1: Control HAP emissions for tanks	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7886(b)(1)(ii)	Option 1: Control HAP emissions for containers	Y	
63.7886(b)(1)(iii)	Option 1c: Control HAP emissions for surface impoundment	Y	
63.7886(b)(1)(iv)	Option 1d: Control HAP emissions for oil-water or organic-water separator	Y	
63.7886(b)(1)(v)	Option 1: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(b)(4)	Option 4: Meet requirements for open tanks or surface impoundments used for biological treatment process	Y	
63.7886(d)	Remediation Material Management Units – General Standards: Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7890	Process Vents – Emission limits and work practice standards	Y	
63.7890(a)	Process Vents – Definition of affected sources	Y	
63.7890(b)	Process Vents – Facility-wide emission limit options (can use both controlled and uncontrolled vent streams to achieve applicable facility-wide emission limit)	Y	
63.7890(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7890(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7890(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7890(c)	Process Vents – closed vent system and control device requirements	Y	
63.7891	Process Vents – Initial Compliance	Y	
63.7891(a)	Process Vents – Initial Compliance requirements	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7891(b)	Process Vents – Measure emissions or use procedures in 63.7941 to demonstrate compliance with applicable option	Y	
63.7891(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7891(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7891(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7891(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7891(d)	Process Vents – Initial Compliance records per 63.7952	Y	
63.7892	Process Vents inspection and monitoring requirements	Y	
63.7893	Process Vents – Continuous Compliance	Y	
63.7893(a)	Process Vents – Continuous Compliance requirements	Y	
63.7893(b)	Process Vents – Maintain emission levels to meet facility-wide emission limits that apply for option chosen:	Y	
63.7893(b)(1)	Option 1: Reduce total HAP emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(2)	Option 2: Reduce total TOC emissions to < 3.0 lb/hr and 3.1 tpy	Y	
63.7893(b)(3)	Option 3: Reduce total HAP emissions by 95% or more	Y	
63.7893(b)(4)	Option 4: Reduce total TOC emissions by 95% or more	Y	
63.7893(c)	Process Vents – meet closed vent system and control device requirements in 63.7928	Y	
63.7893(d)	Process Vents – Continuous Compliance records per 63.7952	Y	
63.7895	Tanks – Emission limits and work practice standards	Y	
63.7895(a)	Tanks – Emission limits and work practice standards	Y	
63.7895(b)	Tanks – Control requirements	Y	
63.7895(b)(1)	Rqmt 1: Determine maximum HAP vapor pressure	Y	
63.7895(b)(2)	Rqmt 2: If maximum HAP vapor pressure is less than 76.6 kPa, determine which tank level controls apply and meet the applicable requirements in paragraph 63.7895(c) or (d)	Y	
63.7895(b)(3)	Rqmt 3: If maximum HAP vapor pressure is greater than or equal to 76.6 kPa, then Tank Level 2 controls are required	Y	
63.7895(b)(4)	Rqmt 4: For tanks used for waste stabilization process, use Tank Level 2 controls	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7895(c)	Tank Level 1 Controls: install and operate a fixed roof or chose Tank Level 2 controls	Y	
63.7895(d)	Tank Level 2 control options	Y	
63.7895(d)(1)	Option 1: Internal floating roof as specified	Y	
63.7895(d)(2)	Option 2: External floating roof as specified	Y	
63.7895(d)(3)	Option 3: Fixed roof with closed vent system and control device meeting standards in 63.7925	Y	
63.7895(d)(4)	Option 4: Pressure tank as specified	Y	
63.7895(d)(5)	Option 5: Total enclosure and vent emissions through closed vent system and control device meeting standards in 63.7925	Y	
63.7895(e)	Tank Level 2 control options – request approval for alternative	Y	
63.7896	Tanks – Initial Compliance	Y	
63.7896(a)	Tanks – Initial Compliance requirements	Y	
63.7896(b)	Tanks – NCS must contain statement of compliance for these requirements	Y	
63.7896(b)(1)	Rqmt 1: Tank control levels have been determined	Y	
63.7896(b)(2)	Rqmt 2: Maximum HAP vapor pressure determined for each remediation material placed in each affected tank with Tank Level 1 controls	Y	
63.7896(c)	Tanks - Demonstrate initial compliance for tanks with Tank Level 1 controls	Y	
63.7896(c)(1)	Rqmt 1: Install fixed roof and closure devices per 63.902(a) with records documenting design	Y	
63.7896(c)(2)	Rqmt 2: Initial visual inspection for defects per 63.906(a) with inspection records	Y	
63.7896(c)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.902.	Y	
63.7896(d)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using internal floating roof tank	Y	
63.7896(d)(1)	Rqmt 1: Install internal floating roof per 63.1063(a) with records documenting design	Y	
63.7896(d)(2)	Rqmt 2: Initial visual inspection for defects per 63.1063(d)(1) with inspection records	Y	
63.7896(d)(3)	Rqmt 3: Operate internal floating roof per 63.1063(b).	Y	
63.7896(e)	Tanks – Demonstrate initial compliance for tanks with Tank Level 2 controls using external floating roof tank	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7896(e)(1)	Rqmt 1: Install external floating roof per 63.1063(a) with records documenting design	Y	
63.7896(e)(2)	Rqmt 3: Operate external floating roof per 63.1063(b).	Y	
63.7896(e)(3)	Rqmt 2: Initial seal gap measurement per 63.1063(d)(3) with records	Y	
63.7896(f)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using fixed roof tank with closed vent system and control device	Y	
63.7896(f)(1)	Rqmt 1: Install tank and control device per 63.902(b) and (c) with records documenting design	Y	
63.7896(f)(2)	Rqmt 2: Initial visual inspection for defects per 63.695(b)(3) with inspection records	Y	
63.7896(f)(3)	Rqmt 3: Operate fixed roof and closure devices per 63.685(g).	Y	
63.7896(g)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using pressure tank	Y	
63.7896(g)(1)	Rqmt 1: Install tank designed as pressure tank with records of design	Y	
63.7896(g)(2)	Rqmt 2: Operate pressure tank per 63.685(h)	Y	
63.7896(h)	Tanks - Demonstrate initial compliance for tanks with Tank Level 2 controls using tank in total enclosure	Y	
63.7896(h)(1)	Rqmt 1: NCS requirement for total enclosure tanks	Y	
63.7896(h)(2)	Rqmt 2: Demonstrate initial compliance for closed vent system and control device	Y	
63.7897	Tanks – Inspection and Monitoring Requirements	Y	
63.7897(a)	Tank Level 1 Controls – annual visual inspection	Y	
63.7897(b)	Tank Level 2 Controls Options:=	Y	
63.7897(b)(1)	Option 1 – Internal Floating Roof – visual inspection requirements	Y	
63.7897(b)(2)	Option 2 – External floating roof – visual inspections and seal inspection requirements	Y	
63.7897(b)(3)	Option 3 – Fixed roof and control device requirements	Y	
63.7897(b)(3)(i)	Rqmt 1: Visual inspections of fixed roof and closures	Y	
63.7897(b)(3)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7897(b)(4)	Option 4 – Pressure tank – annual visual inspections	Y	
63.7897(b)(5)	Option 5 – Permanent total enclosure vented to enclosed combustion device	Y	
63.7897(b)(5)(i)	Rqmt 1: Annual verification procedure for permanent total enclosure	Y	

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63.7897(b)(5)(ii)	Rqmt 2: Monitor and inspect closed vent system and control device as required	Y	
63.7898	Tanks – Continuous compliance	Y	
63.7898(a)	Comply with applicable requirement in 63.7895	Y	
63.7898(b)	Comply with requirements to determine applicable tank control level (63.7895(b)) – Records required	Y	
63.7898(c)	Continuous compliance requirements for Tank Level 1 controls	Y	
63.7898(c)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(c)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(c)(3)	Rqmt 3: Repair defects	Y	
63.7898(c)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(c)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(d)	Continuous compliance requirements for Tank Level 2 controls – Internal floating roof tanks	Y	
63.7898(d)(1)	Rqmt 1: Operate and maintain the internal floating roof	Y	
63.7898(d)(2)	Rqmt 2: Visual inspection requirements	Y	
63.7898(d)(3)	Rqmt 3: Repair defects	Y	
63.7898(d)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(d)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(e)	Continuous compliance requirements for Tank Level 2 controls – External floating roof tanks	Y	
63.7898(e)(1)	Rqmt 1: Operate and maintain the external floating roof	Y	
63.7898(e)(2)	Rqmt 2: Visual inspection and seal inspection requirements	Y	
63.7898(e)(3)	Rqmt 3: Repair defects	Y	
63.7898(e)(4)	Rqmt 4: Recordkeeping	Y	
63.7898(e)(5)	Rqmt 5: Compliance documentation records	Y	
63.7898(f)	Continuous compliance requirements for Tank Level 2 controls – Fixed roof vented to a control device	Y	
63.7898(f)(1)	Rqmt 1: Operate and maintain the fixed roof and closure devices	Y	
63.7898(f)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(f)(3)	Rqmt 3: Repair defects	Y	
63.7898(f)(4)	Rqmt 4: Recordkeeping	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7898(f)(5)	Rqmt 5: Meet continuous compliance requirements	Y	
63.7898(f)(6)	Rqmt 6: Compliance documentation records	Y	
63.7898(g)	Continuous compliance requirements for Tank Level 2 controls – Pressure tank	Y	
63.7898(g)(1)	Rqmt 1: Operate and maintain the pressure tank and closure devices	Y	
63.7898(g)(2)	Rqmt 2: Annual visual inspection	Y	
63.7898(g)(3)	Rqmt 3: Compliance documentation records	Y	
63.7898(h)	Continuous compliance requirements for Tank Level 2 controls – permanent total enclosure vented to enclosed combustion device	Y	
63.7898(h)(1)	Rqmt 1: Annual verification procedure for enclosure	Y	
63.7898(h)(2)	Rqmt 2: Recordkeeping	Y	
63.7898(h)(3)	Rqmt 3: Meet continuous compliance requirements	Y	
63.7898(h)(3)	Rqmt 4: Compliance documentation records	Y	
63.7900	Containers – Emission limits and work practice standards	Y	
63.7900(a)	Containers – Definition of affected sources	Y	
63.7900(b)	Containers > 0.1 m3. Comply with 63.7900(b) or (d)	Y	
63.7900(b)(1)	Containers ≤ 0.46 m3; Container Level 1 per 63.922 or Container Level 2 per 63.923	Y	
63.7900(b)(2)	Containers > 0.46 m3; Option 1 - Container Level 2 controls per 63.923	Y	
63.7900(b)(3)	Containers > 0.46 m3; Option 2 – Allowances for Container Level 1 controls	Y	
63.7900(b)(3)(i)	Containers > 0.46 m3 require Container Level 1 controls if vapor pressure < 0.3 kPa at 20 C	Y	
63.7900(b)(3)(ii)	Containers > 0.46 m3 require Container Level 1 controls if Total concentration of pure organic constituents with vapor pressure greater than 0.13 kPa at 20 C is less than 20% by weight	Y	
63.7900(c)	Containers used for treatment by waste stabilization process	Y	
63.7900(d)	Containers > 0.1 m3: Optional instead of 63.7999(b) – Container Level 3 and comply with requirements for closed vent system and control device	Y	
63.7900(e)	Alternatives to work practice standards	Y	
63.7901	Containers – Initial Compliance	Y	
63.7901(a)	Containers – Initial Compliance per 63.7990	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7901(b)	Containers – Initial Compliance – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7901(b)(1)	Determined applicable container control levels	Y	
63.7901(b)(2)	Determined and recorded maximum vapor pressure or total organic concentration for containers > 0.46 m3 that do not use Container Level 2 or Level 3 controls	Y	
63.7901(c)	Demonstrate initial compliance for each container with Container Level 1 controls by certifying (c)(1) and (c)(2) in the notification of compliance status	Y	
63.7901(d)	Demonstrate initial compliance for each container with Container Level 2 controls by certifying (d)(1) thru (d)(4) in the notification of compliance status	Y	
63.7901(e)	Demonstrate initial compliance for each container with Container Level 3 controls by certifying (e)(1) and (e)(2) in the notification of compliance status	Y	
63.7902	Containers – Inspection and Monitoring Requirements	Y	
63.7902(a)	Inspect Container Level 1 or Container Level 2 contains IAW 63.926(a)	Y	
63.7902(b)	Meet Container Level 3 requirements as follows:	Y	
63.7902(b)(1)	Container Level 3: annual verification procedure	Y	
63.7902(b)(2)	Container Level 3: monitor and inspect closed vent system and control device IAW 63,7927	Y	
63.7903	Containers – Continuous Compliance	Y	
63.7903(a)	Containers – Continuous Compliance per 63.7990	Y	
63.7903(b)	Containers – Continuous Compliance with requirement to determine applicable container control level	Y	
63.7903(b)(1)	Records of containers	Y	
63.7903(b)(2)	Containers > 0.46 m3 and using Container Level 1 controls – meet the following requirements:	Y	
63.7903(b)(2)(i)	Container Level 1 controls: Records of max vapor pressure or total organic concentration	Y	
63.7903(b)(2)(ii)	Container Level 1 controls: New determination when remediation material changes – keep records	Y	
63.7903(b)(3)	Records of compliance	Y	
63.7903(c)	Containers – Continuous Compliance Demonstration for Container Level 1 controls	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7903(c)(1)	Covers	Y	
63.7903(c)(2)	Annual inspections	Y	
63.7903(c)(3)	Emptying or repairing	Y	
63.7903(c)(4)	Inspection records	Y	
63.7903(c)(4)(i)	Inspection records - Date	Y	
63.7903(c)(4)(ii)	Inspection records – Defect information	Y	
63.7903(c)(5)	Records of compliance	Y	
63.7903(d)	Containers – Continuous Compliance Demonstration for Container Level 2 controls	Y	
63.7903(d)(1)	Transferring material	Y	
63.7903(d)(2)	Covers	Y	
63.7903(d)(3)	Annual inspections	Y	
63.7903(d)(4)	Emptying or repairing	Y	
63.7903(d)(5)	Records of inspections	Y	
63.7903(d)(5)(i)	Inspection records - Date	Y	
63.7903(d)(5)(ii)	Inspection records – Defect information	Y	
63.7903(d)(6)	Records of compliance	Y	
63.7903(e)	Containers – Continuous Compliance Demonstration for Container Level 3 controls	Y	
63.7903(e)(1)	Annual verification procedure	Y	
63.7903(e)(2)	Records per 63.696(f)	Y	
63.7903(e)(3)	Comply with 63.7928	Y	
63.7903(e)(4)	Records of compliance	Y	
63.7910	Separators – Emission limits and work practice standards	Y	
63.7910(a)	Separators – Definition of affected sources	Y	
63.7910(b)	Separators – Install and operate air pollution controls	Y	
63.7910(b)(1)	Separator controls – Option 1: Floating roof (fixed roof allowed where floating roof infeasible)	Y	
63.7910(b)(2)	Separator controls – Option 2: Fixed roof vented to control device	Y	
63.7910(b)(3)	Separator controls – Option 3: Pressurized separator	Y	
63.7910(c)	Separators – Alternatives may be approved	Y	
63.7911	Separators – Initial Compliance	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7911(a)	Separators – Initial compliance per 63.7910	Y	
63.7911(b)	Separators with floating roof – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(b)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(b)(2)	Operate floating roof and closure devices per 63.1043(c)	Y	
63.7911(b)(3)	Initial seal gap measurement performed and records available	Y	
63.7911(b)(4)	Initial visual inspection performed and records available	Y	
63.7911(b)(5)	Fixed roof portions meet requirements of 63.7901(c)	Y	
63.7911(c)	Separators with fixed roof vented to control device – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(c)(1)	Records documenting design and installation of roof and closure devices	Y	
63.7911(c)(2)	Operate fixed roof and closure devices per 63.1042(c)	Y	
63.7911(c)(3)	Initial visual inspection performed and records available	Y	
63.7911(c)(4)	Initial compliance demonstrated with emission limits and work practice standards	Y	
63.7911(d)	Separators - Pressurized – notification of compliance status; Signed statement of compliance with following requirements:	Y	
63.7911(d)(1)	Records documenting design and installation of pressurized separator	Y	
63.7911(d)(2)	Operate pressurized separator per 63.1045(b)(3)	Y	
63.7912	Separators – Inspection and monitoring requirements	Y	
63.7912(a)	Separators – Inspection and monitoring requirements – Floating roof	Y	
63.7912(a)(1)	Annual seal gap measurement	Y	
63.7912(a)(2)	Annual visual inspection	Y	
63.7912(b)	Separators – Inspection and monitoring requirements – Cover vented to control device	Y	
63.7912(b)(1)	Visual inspection of cover and closure device	Y	
63.7912(b)(2)	Closed vent system and control device monitoring and inspection	Y	
63.7912(c)	Separators – Inspection and monitoring requirements – Pressurized separator	Y	
63.7913	Separators – Continuous compliance	Y	
63.7913(a)	Separators – Continuous compliance requirements	Y	
63.7913(b)	Separators with floating roof – Continuous compliance	Y	

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63.7913(b)(1)	Operate and maintain floating roof	Y	
63.7913(b)(2)	Annual seal gap measurements	Y	
63.7913(b)(3)	Annual visual inspections	Y	
63.7913(b)(4)	Repair defects	Y	
63.7913(b)(5)	Recordkeeping	Y	
63.7913(b)(6)	Compliance documentation records	Y	
63.7913(c)	Separators with fixed roof vented to control device – Continuous compliance	Y	
63.7913(c)(1)	Operate and maintain fixed roof and closure device	Y	
63.7913(c)(2)	Annual visual inspections	Y	
63.7913(c)(3)	Repair defects	Y	
63.7913(c)(4)	Recordkeeping	Y	
63.7913(c)(5)	Compliance documentation records	Y	
63.7913(d)	Separators - pressurized	Y	
63.7913(d)(1)	Operating at all times as required	Y	
63.7913(d)(2)	Annual visual inspection	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	

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63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7925	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(a)	Closed Vent Systems and Control Devices – emission limits and work practice standards	Y	
63.7925(b)	Closed Vent Systems and Control Devices – operate control device at all times when gases or vapors containing HAP are vented to it except:	Y	
63.7925(b)(1)	Bypass allowed for planned routine maintenance up to 240 hours per calendar year	Y	
63.7925(b)(2)	Bypass allowed to correct malfunction of closed-vent system or control device – as soon as practicable after malfunction	Y	
63.7925(c)	Closed Vent Systems and Control Devices – comply with emission limits and work practice standards	Y	
63.7925(d)	Closed Vent Systems and Control Devices for facility-wide process vent emission limits – requirements	Y	
63.7925(d)(1)	Option 1: Reduce total HAP (or TOC minus methane and ethane) emissions by 95%	Y	
63.7925(d)(2)	Option 2: Limit concentration of total HAP or TOC (minus methane and ethane) to 20 ppmvd or less @ 3% O ₂	Y	
63.7925(f)	Closed Vent Systems and Control Devices – process heater or boiler requirements	Y	
63.7925(f)(1)	Option 1: Introduce vent stream into flame zone; residence time ≥ 0.5 seconds and temperature ≥ 760C	Y	

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63.7925(f)(2)	Option 2: Introduce vent stream with primary fuel	Y	
63.7925(f)(3)	Option 3: Introduce vent stream into permitted boiler or process heater complying with 40 CFR 266 Subpart H – Hazardous Waste Burned in Boilers and Industrial Furnaces	Y	
63.7925(g)	Closed Vent Systems and Control Devices – control device operating limits	Y	
63.7925(g)(1)	Regenerable carbon adsorption system requirements	Y	
63.7925(g)(2)	Nonregenerable carbon adsorption system requirements	Y	
63.7925(g)(3)	Condenser requirements	Y	
63.7925(g)(4)	Thermal incinerator requirements	Y	
63.7925(g)(5)	Catalytic incinerator requirements	Y	
63.7925(g)(6)	Boiler or process heater requirements	Y	
63.7925(h)	Closed Vent Systems and Control Devices – carbon absorption system work practice standards	Y	
63.7925(h)(1)	Regenerable carbon adsorption system work practices	Y	
63.7925(h)(2)	Nonregenerable carbon adsorption system work practices	Y	
63.7925(h)(3)	Nonregenerable carbon adsorption system alternative practices	Y	
63.7925(i)	Closed Vent Systems and Control Devices – catalytic incinerator work practice standards	Y	
63.7925(j)	Closed Vent Systems and Control Devices – alternative work practice standards	Y	
63.7926	Closed Vent Systems and Control Devices – Initial compliance	Y	
63.7926(a)	Closed Vent Systems and Control Devices – Initial compliance with 63.7925 requirements	Y	
63.7926(b)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for these closed vent system requirements	Y	
63.7926(b)(1)	Rqmt 1: Closed vent system installation and records	Y	
63.7926(b)(2)	Rqmt 2: Initial inspection of closed vent system and records	Y	
63.7926(c)	Closed Vent Systems and Control Devices – NCS must contain statement of compliance for control devices for facility-wide process vent emission control requirements	Y	
63.7926(c)(1)	Option 1: Document 95% control of emissions demonstrated in performance test or design evaluation	Y	

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63.7926(c)(2)	Option 2: Document max emissions <= 20 ppmvd @ 3% O2 demonstrated in performance test or design evaluation	Y	
63.7926(d)	Closed Vent Systems and Control Devices – initial compliance demonstration - control device operating limits	Y	
63.7926(d)(1)	Rqmt 1: Establish appropriate operating limit(s) for each applicable operating parameter for control device per 63.7925(g)	Y	
63.7926(d)(2)	Rqmt 1: Record of applicable operating parameter data during performance test or design evaluation when emissions met applicable limit	Y	
63.7926(e)	Closed Vent Systems and Control Devices – carbon adsorption system – spent carbon replacement and disposal work practice standards - NCS must contain statement of compliance	Y	
63.7926(f)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards - NCS must contain statement of compliance	Y	
63.7926(h)	Closed Vent Systems and Control Devices – records demonstrating compliance with boiler or process heater work practice standards in 63.7925(f) - NCS must contain statement of compliance	Y	
63.7927	Closed vent system and control devices – inspection and monitoring requirements	Y	
63.7927(a)	Closed vent system and control devices – Closed vent system inspection and monitoring requirements	Y	
63.7927(a)(1)	Rqmt 1: Inspection and monitoring options	Y	
63.7927(a)(2)	Rqmt 2: Closed vent system bypass device requirements	Y	
63.7927(b)	Closed vent system and control devices – Regenerable carbon adsorption system inspection and monitoring requirements	Y	
63.7927(b)(1)	Rqmt 1: Use CPMS to measure and record hourly average total regeneration stream flow during carbon adsorption cycle	Y	
63.7927(b)(2)	Rqmt 2: Use CPMS to measure and record hourly average temperature during regeneration	Y	
63.7927(b)(3)	Rqmt 3: Use CPMS to measure and record hourly average temperature of adsorption bed after regeneration	Y	
63.7927(c)	Closed vent system and control devices – Nonregenerable carbon adsorption system inspection and monitoring requirements – CPMS – organic compounds in exhaust	Y	

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Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7927(d)	Closed vent system and control devices – Condenser inspection and monitoring requirements – CPMS – exit temperature	Y	
63.7927(e)	Closed vent system and control devices – Thermal incinerator inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(f)	Closed vent system and control devices – Catalytic incinerator inspection and monitoring requirements – CPMS – two temperature sensors – inlet and outlet	Y	
63.7927(g)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – CPMS – hourly average firebox temperature	Y	
63.7927(i)	Closed vent system and control devices – Boiler or process heater inspection and monitoring requirements – if introduced into flame zone, then CPMS – combustion zone temperature	Y	
63.7928	Closed vent system and control devices – continuous compliance	Y	
63.7928(a)	Closed vent system and control devices – continuous compliance requirements	Y	
63.7928(b)	Closed vent system and control devices – closed vent system continuous compliance with 63.7925(c) requirements	Y	
63.7928(b)(1)	Closed vent system designed for no detectable emissions - annual monitoring and inspection	Y	
63.7928(b)(2)	Closed vent system designed for to operate below atmospheric pressure – annual visual inspection	Y	
63.7928(b)(3)	Closed vent system – repair defects	Y	
63.7928(b)(4)	Closed vent system – inspection records	Y	
63.7928(b)(5)	Closed vent system – optional monitoring records	Y	
63.7928(b)(6)	Closed vent system bypass device – flow detector records, if applicable	Y	
63.7928(b)(7)	Closed vent system bypass device – monthly inspections of seal or closure mechanism, if applicable	Y	
63.7928(c)	Closed vent system and control devices – control device continuous compliance with 63.7925(d) requirements	Y	
63.7928(c)(1)	For 63.7925(d)(1) limit: maintain emission reduction $\geq 95\%$	Y	
63.7928(c)(2)	For 63.7925(d)(2) limit: maintain emissions ≤ 20 ppmvd @ 3% O ₂	Y	
63.7928(d)	Closed vent system and control devices – control device continuous compliance with 63.7925(g) requirements	Y	

Table IV – A.2
Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7928(d)(1)	Maintain each operating limit as applicable to control device	Y	
63.7928(d)(2)	Monitor and inspect control device per 63.7927 as applicable	Y	
63.7928(d)(3)	Operate and maintain each CPMS per 63.7945 and collect and reduce data per 63.7946	Y	
63.7928(d)(4)	Recordkeeping	Y	
63.7928(e)	Closed Vent Systems and Control Devices – regenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(f)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards	Y	
63.7928(g)	Closed Vent Systems and Control Devices – nonregenerable carbon adsorption system – spent carbon replacement and disposal work practice standards – alternative standards	Y	
63.7928(h)	Closed Vent Systems and Control Devices – catalytic oxidizer – catalyst replacement work practice standards	Y	
63.7928(j)	Closed Vent Systems and Control Devices –process heater work practice standards continuous compliance demonstration	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(a)	Requirements for existing sources with performance tests or design evaluations	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	

Table IV – A.2
Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration – Comply with applicable methods for affected sources	Y	
63.7941(b)	Initial Compliance Demonstration - Requirements for performance tests as initial compliance demonstration	Y	
63.7941(c)	Initial Compliance Demonstration - Requirements for design evaluation of control devices (carbon, condenser, vapor incinerator, boiler, process heater)	Y	
63.7941(d)	Initial Compliance Demonstration - Monitoring requirements during performance tests and design evaluations	Y	
63.7941(e)	Initial Compliance Demonstration – Process heater or boiler performance test requirements	Y	
63.7941(f)	Initial Compliance Demonstration – CPMS performance tests	Y	
63.7941(g)	Initial Compliance Demonstration – Requirements for visual inspections of affected sources	Y	
63.7941(i)	Initial Compliance Demonstration – Requirements for Container Level 2 tests	Y	
63.7941(j)	Initial Compliance Demonstration – Requirements for permanent total enclosures with control devices	Y	
63.7941(k)	Initial Compliance Demonstration – Requirements for Separators	Y	
63.7941(m)	Initial Compliance Demonstration – Reporting requirements for initial compliance demonstration performance test or design evaluation	Y	
63.7942	Subsequent performance test requirements	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7945	Continuous Monitoring Systems – installation, operation, and maintenance requirements	Y	
63.7945(a)	CPMS requirements	Y	
63.7945(a)(1)	Must complete a minimum of one cycle of operation each successive 15-minute period	Y	
63.7945(a)(2)	Data availability requirements for valid hourly average	Y	
63.7945(a)(3)	Data availability requirements for valid averaging period	Y	

Table IV – A.2
Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7945(a)(4)	CPMS must determine hourly average or daily average, if required	Y	
63.7945(b)	Records of each inspection, calibration, and validation check	Y	
63.7945(c)	Performance evaluation requirements	Y	
63.7946	Monitor and collect data to demonstrate continuous compliance	Y	
63.7946(a)	Monitor and collect data per 63.7946 and site-specific monitoring plan	Y	
63.7946(b)	Monitor continuously (or at required intervals) at all times that affected source is operating except for monitor malfunctions, associated repairs, and required QA activities (calibration, etc.)	Y	
63.7946(c)	Do not use data recorded during monitoring malfunctions, associated repairs, out of control periods and required QA activities in data averages and calculations. Such data may not be used to fulfill a minimum data availability requirement.	Y	
63.7947	Monitoring alternatives		
63.7947(a)	Use CEMS in place of a CPMS to measure control device outlet total organic emissions or organic HAP emissions concentration.		
63.7947(b)	Maintain the daily (24-hour) average total organic or HAP emissions concentration in exhaust vent stream of the control device outlet less than or equal to the site-specific operating limit established during the performance test		
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7950(c)	Initial Notification – new or reconstructed affected source	Y	
63.7950(d)	Notification requirement – 60 days prior to performance tests	Y	
63.7950(e)	Notification of Compliance Status – required if performance test, design evaluation , or other initial compliance demonstration is required	Y	
63.7950(f)	Notification of alternative standard selected	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	

Table IV – A.2
Source-specific Applicable Requirements

Facility B2759 – Amorco Terminal

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(3)	Records required: Performance tests and performance evaluations	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(b)	Records required: CPMS	Y	
63.7952(b)(1)	Records required: CPMS records per 63.10(b)(2)	Y	
63.7952(b)(2)	Records required: CPMS performance evaluation plans	Y	
63.7952(c)	Records required: Continuous compliance demonstration records for all applicable requirements	Y	
63.7952(d)	Records required: Semiannual records (63.696(g) for planned routine maintenance of a control device for emissions from process vents	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
BAAQMD Condition 8077	See Table IV – M.1		
BAAQMD Condition 19528	Facility Wide Permit Conditions		
Part 12	Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	
Part 12A	Record Keeping Requirements Applicable to Tanks Exempt from Regulation 8-5, pursuant to Regulation 8-5-117	Y	

Table IV – A.3
Source-specific Applicable Requirements

Fenceline Monitoring

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 12 Rule 15	Miscellaneous Standards of Performance – Petroleum Refining Emissions Tracking (11/03/2021)		
12-15-207	Fence-Line Monitoring System	N	1 yr after plan approval
12-15-403	Air Monitoring Plans	N	1 yr after plan approval
12-15-404	Review and Approval of Air Monitoring Plan	N	1 yr after plan approval
12-15-406	Air Monitoring Guidelines	N	1 yr after plan approval
12-15-407	Designation of Confidential Information	N	1 yr after plan approval
12-15-501	Fence-line Monitoring System	N	1 yr after plan approval

Section B Process Units

**Table IV – B.1
Source-specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV – B.2
Source-specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – B.3
Source-specific Applicable Requirements

S850 - Diesel HDO Unit No. 3 (Formerly No. 3 HDS Unit)

S1003 - Diesel HDO Unit No. 2 (Formerly No. 2 HDS Unit)

S1008 - Diesel HDO Unit No. 1 (Formerly No. 1st Stage Hydrocracker Unit)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 10	See Table IV – A.1.	Y	
BAAQMD Regulation 8 Rule 18	See Tables IV – J.1 and J.2.	Y	
40 CFR 63 Subpart FFFF	See Tables IV – J.1 and J.2.	Y	
40 CFR 63 Subpart UU	See Tables IV – J.1 and J.2.	Y	
BAAQMD Condition 27583			
Part 2	S-850, S-1003, and/or S-1008 shall not process any crude oil feedstock and/or petroleum based material (Basis: Reg 2-1-403)	Y	
BAAQMD Condition 27584			
Part 1	Throughput Limit – S-850, S-1003, and S-1008 do not process more than 67,000 barrels of feedstock per calendar day combined and/or 17,520,000 barrels of feedstock combined in any consecutive 12-month period. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2 (S850)	Throughput Limit – S-850 ≤ 23,000 barrels of feedstock per calendar day and/or 7,300,000 barrels of feedstock combined in any consecutive 12-month period. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3 (S1003)	Throughput Limit – S-1003 ≤ 20,000 barrels of feedstock per calendar day and/or 6,570,000 barrels of feedstock combined in any consecutive 12-month period. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4 (S1008)	Throughput Limit – S-1008 ≤ 24,000 barrels of feedstock per calendar day and/or 7,300,000 barrels of feedstock combined in any consecutive 12-month period. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 8	Recordkeeping requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	
BAAQMD Condition 27596			

Table IV – B.3
Source-specific Applicable Requirements

S850 - Diesel HDO Unit No. 3 (Formerly No. 3 HDS Unit)
S1003 - Diesel HDO Unit No. 2 (Formerly No. 2 HDS Unit)
S1008 - Diesel HDO Unit No. 1 (Formerly No. 1st Stage Hydrocracker Unit)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 15 (S850)	Hourly and annual POC emissions limit from all fugitive components. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)	Y	
Part 16 (S1003)	Hourly and annual POC emissions limit from all fugitive components. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)	Y	
Part 18 (S1008)	Hourly and annual POC emissions limit from all fugitive components. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)	Y	

Table IV – B.4
Source-specific Applicable Requirements

S1002 - Propane Dryers (formerly No. 1 HDS Unit)
S1105 - No. 4 HDS Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 19199	Applies to S1105 only		
Part G0	S1105 Hydrocarbon material/feed material throughput limit (Basis: Regulation 2-2-419)	Y	
Part G5	S1105 pumps BACT compliant and emissions < 100 ppm (Basis: BACT, Regulation 8-18)	Y	
Part G9	S1105 Recordkeeping (Basis: cumulative increase)	Y	
BAAQMD Condition 27584	Applies to S1002 only		
Part 5	Throughput Limit – S1002 ≤ 6,000 barrels of renewable propane per calendar day and/or 1,460,000 barrels of renewable propane combined in any consecutive 12-month period. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 8	Recordkeeping requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Table IV – B.5
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – B.6
Source-specific Applicable Requirements
S1005 - No. 1 Hydrogen Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (5/4/2022) Applies to S1005 No. 1 Hydrogen Plant CO2 Vents #1 and #2		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Regulation 13 Rule 5	Climate Pollutants, Industrial Hydrogen Plants (05/04/2022)		
13-5-104	Limited Exemption, Deaerator Vents and Carbon Dioxide Scrubbing Vents: exempt from Section 13-5-300	N	
13-5-301	Emission Limits for Industrial Hydrogen Plants: no more than 15 lb/d and 300 ppmv TOC	N	05/04/2025
13-5-302	Prohibition of Comingling and Dilution	N	
13-5-401	Device Requirements for Industrial Hydrogen Plants: submit permit application and commence operation within 3 years provided the hydrogen plant does not already comply with Section 13-5-301	N	05/04/2025
13-5-401.1	Submit permit application to the APCO for an Authority to Construct and/or Permit to Operate a TOC control device to comply with Section 13-5-301		05/04/2025
13-5-401.2	Commence operation of the control device within 3 years of receiving Authority to Construct		Within 3 years of receipt of ATC
13-5-402	Reporting Requirements for TOC Vented from Industrial Hydrogen Plants with a Fully Operational TOC Control Device	N	05/04/2025
13-5-501	Monitoring Requirements, General	N	05/04/2024

Table IV – B.6
Source-specific Applicable Requirements

S1005 - No. 1 Hydrogen Plant

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
13-5-504	Monitoring Requirements, Deaerator Vents and Carbon Dioxide Scrubbing Vents	N	05/04/2024
13-5-506	Recordkeeping Requirements	N	
13-5-601	Determination of Compliance and Monitoring of TOC Emissions	N	
BAAQMD Condition 22070			
Part 1	Biennial (once every two years) source test on S-1005 No. 1 Hydrogen Plant CO2 Vent #1 and CO2 Vent #2 to demonstrate compliance with Regulation 8-2-301. (Basis: Regulation 2-6-409.2)	Y	
BAAQMD Condition 24321			
Part 1	Throughput Limit (basis: Cumulative Increase)	Y	
Part 2	Recordkeeping Requirements (basis: Recordkeeping)	Y	

Table IV – B.7
Source-specific Applicable Requirements

S1038 Benzene Saturation Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 23258			
Part 1	Throughput limit (basis: Cumulative Increase)	Y	
Part 5	Recordkeeping Requirements (basis: Cumulative Increase)	Y	

Table IV – B.8
Source-specific Applicable Requirements

S1007- Diesel Isomerization Unit (formerly 2nd Stage Hydrocracker Unit)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 10	See Table IV – A.1.	Y	
BAAQMD Regulation 8 Rule 18	See Tables IV – J.1 and J.2.	Y	
40 CFR 63 Subpart FFFF	See Tables IV – J.1 and J.2.	Y	
40 CFR 63 Subpart UU	See Tables IV – J.1 and J.2.	Y	
BAAQMD Condition 8077			
Part C1	Throughput Limit (Basis: cumulative increase)	Y	
Part C2	Recordkeeping (Basis: cumulative increase)	Y	
BAAQMD Condition 27583			
Part 2	S1007 shall not process any crude oil feedstock and/or petroleum based material. (Basis: Regulation 2-1-403 Permit Conditions)	Y	
Part 18	Measure true vapor pressure of renewable diesel on a weekly basis. (Basis: Regulation 2-1-403 Permit Conditions, Regulations 2-1-301/302)	Y	
BAAQMD Condition 27584			
Part 6	Throughput Limit – S1007 <= 58,000 barrels of renewable diesel per calendar day and/or 48,000 barrels of renewable diesel, based on a rolling 365-day average. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 8	Recordkeeping requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	
BAAQMD Condition 27596			
Part 17	Hourly and annual POC emissions limit from all fugitive components. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)	Y	

Table IV – B.9
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – B.10
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – B.11
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – B.12
Source-specific Applicable Requirements
S1555 - Reformate Splitter Unit

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 25476			
Part 2	Throughput limit (Basis: Cumulative Increase)	Y	
Part 24	Recordkeeping Requirements (Basis: Cumulative Increase)	Y	

Table IV – B.13
Source-specific Applicable Requirements

S1600 - Foul Water Strippers
Abated by A2002 H2S Adsorption Vessels,
A2000 Sour Water Stripper Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (11/03/2021)		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-313	Sulfur Removal Operations at Refineries	Y	
9-1-313.2	Sulfur removal and recovery system that removes and recovers, on a refinery wide basis, 95% of the H2S from the refinery fuel gas, removes and recovers on a refinery wide basis, 95% of the H2S from the process water, streams, and removes 95% of the ammonia from the process water streams.	Y	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
BAAQMD Regulation 9 Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/06/1999)		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
9-2-601	Ground Level Monitoring	N	
BAAQMD Condition 27586			
Part 1	Calendar day and consecutive 12 month period throughput limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	Abate S-1600 at all times. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Ensure no hydrogen sulfide emissions are emitted to the atmosphere. (Basis: Regulation 2-5 Toxics)	Y	
Part 4	Hourly and consecutive 12 month period ammonia emission limits. (Basis: Regulation 2-5 Toxics)	Y	
Part 5	Hourly and consecutive 12 month period sulfuric acid mist emission limits. (Basis: Regulation 2-5 Toxics)	Y	

Table IV – B.13
Source-specific Applicable Requirements

S1600 - Foul Water Strippers
Abated by A2002 H2S Adsorption Vessels,
A2000 Sour Water Stripper Thermal Oxidizer

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Initial compliance testing. (Basis: Regulation 2-5 Toxics)	Y	

Section C Combustion Sources

Section C.1 Combustion – Boilers

Table IV – C.1.1
Source-specific Applicable Requirements

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – C.1.2
Source-specific Applicable Requirements

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – C.1.3
Source-specific Applicable Requirements

S1550, S1551, S1553, S1558, and S1559 Backup Boilers

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	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	

**Table IV – C.1.3
 Source-specific Applicable Requirements**

S1550, S1551, S1553, S1558, and S1559 Backup Boilers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (8/1/2018)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (02/16/2012)		
60.40c	Applicability and delegation of authority	Y	
60.40c(a)	Applicability: Steam generating units constructed after June 9, 1989 with heat input capacity \geq 10 MMBTU/hr and $<$ 100 MMBTU/hr	Y	
60.41c	Definitions	Y	
60.48c	Reporting and recordkeeping requirements	Y	
60.48c(a)	Reporting and recordkeeping: Notifications of construction dates and actual startups per 40 CFR 60.7. Notifications shall include:	Y	
60.48c(a)(1)	Design heat input capacity and fuels to be combusted	Y	
60.48c(a)(3)	Annual capacity factor anticipated for each fuel	Y	
60.48c(g)(2)	Alternative recordkeeping requirements – monthly natural gas use	Y	

**Table IV – C.1.3
 Source-specific Applicable Requirements**

S1550, S1551, S1553, S1558, and S1559 Backup Boilers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48c(i)	Record retention requirements	Y	
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (10/6/2022)	Y	
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed or existing industrial boiler or process heater	Y	
63.7490(a)(1)	Affected sources is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters	Y	
63.7490(a)(2)	The affected source is each new or reconstructed source at a major source;	Y	
63.7491	Boilers or process heaters not subject to this subpart	Y	
63.7491(j)	Temporary boilers and process heaters as defined in this subpart	Y	
63.7575	Subpart DDDDD Definitions	Y	
BAAQMD Condition 24491			
Part 1	Fire only on natural gas. Firing rate limit. (Basis: Cumulative Increase, Offsets, Toxics, NSPS, BACT)	Y	
Part 4	SCR abatement requirements and exceptions for startups and shutdowns. (Basis: Cumulative Increase, Offsets, Toxics)	Y	
Part 5	Continuous fuel flow meter requirements. (Basis: Cumulative Increase, Offsets, Toxics)	Y	
Part 6	Fuel consumption limit per 12 consecutive months. (Basis: Cumulative Increase, Offsets, Toxics)	Y	
Part 7	NOx emission limit (except during allowable startup and shutdown periods). (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 8	NOx emission limit during allowable startup and shutdown periods. (Basis: Cumulative Increase, Offsets)	Y	
Part 9	CO emission limit. (Basis: Cumulative Increase, Offsets, BACT)	Y	
Part 10	Source test and source test report requirements. (Basis: Cumulative Increase, Offsets, BACT)	Y	

Table IV – C.1.3
Source-specific Applicable Requirements

S1550, S1551, S1553, S1558, and S1559 Backup Boilers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11	Recordkeeping requirements. (Basis: Cumulative Increase, Offsets, Toxics, BACT)	Y	

Section C.2 Combustion - Flares

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

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)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.10	Monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (7/31/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6.1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
BAAQMD Regulation 12 Rule 11	Miscellaneous Standards of Performance – Flare Monitoring at Refineries (11/03/2021)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
BAAQMD Regulation 12 Rule 12	Miscellaneous Standards of Performance – Flares at Refineries (11/03/2021)		
12-12-301	Flare Minimization	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
40 CFR 60 Subpart J	NSPS - Standards of Performance for Petroleum Refineries (12/01/2015) [Applies due to BAAQMD Condition 24324]		
60.100(a)	Applicability: FCCU Catalyst Regenerators, Fuel Gas Combustion Devices, and Claus Sulfur Recovery Plants (20 TPD)	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.100(b)	Applicability: Constructed/reconstructed/modified after June 11, 1973 and before May 14, 2007	Y	
60.104	Standards for Sulfur Oxides	Y	
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices: Exemption from fuel gas H2S concentration limit for the combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.	Y	
60.105	Monitoring of emissions and operations	Y	
60.105(a)(4)(iv)	Exemption from §60.105(a)(3) or (a)(4) for fuel gas streams exempt under §60.104(a)(1) and under this paragraph. Must comply with §60.105(a)(3) or (a)(4) within 15 days of loss of exemption.	Y	
60.105(a)(4)(iv)(A)	Exemption for pilot gas for heaters and flares – presumed to be low sulfur content	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(e)	Records of the specific exemption chosen under §60.105(a)(4)(iv)(A) for flare pilot gas.	Y	
40 CFR 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) (11/19/2020) (Applies when flare is used to reduce organic HAP emissions pursuant to 63.2380(a))	Y	
63.2380	What are my requirements for certain flares?	Y	
63.2380(a)	Meet the applicable requirements for flares as specified in §§63.670 and 63.671, including the provisions in Tables 12 and 13 to subpart CC of this part, except as specified in paragraphs (b) through (m) of this section.	Y	
63.2380(b)	The following phrases in §63.670(c) do not apply.	Y	
63.2380(c)	The phrase “and the flare vent gas flow rate is less than the smokeless design capacity of the flare” in §63.670(d) does not apply.	Y	
63.2380(d)	Section 63.670(j)(6)(ii) does not apply. Instead submit the information required by §63.670(j)(6)(ii) with the Notification of Compliance Status according to §63.2382(d)(2)(ix).	Y	
63.2380(e)	Section 63.670(o) does not apply.	Y	
63.2380(f)	Substitute “pilot flame or flare flame” or each occurrence of “pilot flame.”	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2380(g)	Substitute “affected source” for each occurrence of “petroleum refinery.”	Y	
63.2380(h)	Each occurrence of “refinery” does not apply.	Y	
63.2380(i)	You may elect to comply with the alternative means of emissions limitation requirements specified in §63.670(r) in lieu of the requirements in §63.670(d) through (f), as applicable. However, instead of complying with §63.670(r)(3)(iii), you must also submit the alternative means of emissions limitation request to the following address: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, U.S. EPA Mailroom (E143-01), Attention: Organic Liquids Distribution Sector Lead, 109 T.W. Alexander Drive, Research Triangle Park, NC 27711. Electronic copies in lieu of hard copies may also be submitted to oldrtr@epa.gov.	Y	
63.2380(j)	If you choose to determine compositional analysis for net heating value with a continuous process mass spectrometer, then you must comply with the requirements specified in paragraphs (j)(1) through (7) of this section.	Y	
63.2380(k)	If you use a gas chromatograph or mass spectrometer for compositional analysis for net heating value, then you may choose to use the CE of NHV measured versus the cylinder tag value NHV as the measure of agreement for daily calibration and quarterly audits in lieu of determining the compound-specific CE.	Y	
40 CFR 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (11/19/2020)	Y	
63.2450(e)(5)	For any flare that is used to reduce organic HAP emissions from an MCPU, the permittee elects to comply with the requirements in this paragraph in lieu of the requirements of §63.982(b).	Y	
63.2450(e)(5)(ix)	(ix) If you choose to determine compositional analysis for net heating value with a continuous process mass spectrometer, comply with the requirements specified in paragraphs (e)(5)(ix)(A) through (G).	Y	

Table IV – C.2.1
Source-specific Applicable Requirements

Flares Subject to NSPS via Consent Decree Condition 24324
S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(e)(5)(x)	(x) If you use a gas chromatograph or mass spectrometer for compositional analysis for net heating value, then you may choose to use the CE of NHV _{measured} versus the cylinder tag value NHV as the measure of agreement for daily calibration and quarterly audits in lieu of determining the compound-specific CE. The CE for NHV at any calibration level must not differ by more than 10 percent from the certified cylinder gas value. The CE for must be calculated using Equation 2 to this paragraph 63.2450(e)(5)(x).	Y	
40 CFR 63 Subpart CC	NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (11/19/2020) (Listed flares are subject to requirements of Subpart CC per 40 CFR 63.2380(a), but are not subject to Subpart CC. Requirements below reflect requirements as directed by 63.2380(b) through (m).)		
63.670(b)	Pilot Flame of Flare Flame Presence: Operate with a pilot flame or flare flame at all times when the regulated material is routed to the flare. Each 15-minute block during which there is at least one minute where no pilot flame or flare flame is present when regulated material is routed to the flare is a deviation of the standard.	Y	
63.670(c)	Visible Emissions: Operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when regulated material is routed to the flare. The owner or operator shall monitor for visible emissions from the flare as specified in paragraph (h) of this section.	Y	
63.670(d)	Flare Tip Velocity: Compliance options for whenever regulated material is routed to the flare for at least 15-minutes.	Y	
63.670(e)	Combustion Zone Operating Limits: Maintain the net heating value of the flare combustion zone at or above 270 Btu/scf determined on a 15-min block period basis when regulated material is routed to the flare. The owner or operator shall monitor and calculate NHV _{cz} as specified in paragraph (m) of this section.	Y	
63.670(f)	Dilution operating limits for flares with perimeter assist air. Except as provided in paragraph (f)(1) of this section, foreach flare actively receiving perimeter assist air, the owner or operator shall operate the flare to maintain the net heating value dilution parameter (NHV _{dil}) at or above 22 British thermal units per square foot (Btu/ft ²) determined on a 15-minute block period basis when regulated material is being routed to the flare for at least 15-minutes. The owner or operator shall monitor and calculate NHV _{dil} as specified in paragraph (n) of this section	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(f)(1)	If the only assist air provided to a specific flare is perimeter assist air intentionally entrained in lower and/or upper steam at the flare tip and the effective diameter is 9 inches or greater, the owner or operator shall comply only with the NHVcz operating limit in paragraph (e) of this section for that flare.	Y	
63.670(g)	Continuously monitor the presence of the pilot flame or flare flame.	Y	
63.670(h)	Visible emissions monitoring. The owner or operator shall conduct an initial visible emissions demonstration using an observation period of 2 hours using Method 22 at 40 CFR part 60, appendix A-7. The initial visible emissions demonstration should be conducted the first time regulated materials are routed to the flare. Subsequent visible emissions observations must be conducted using either the methods in paragraph (h)(1) of this section or, alternatively, the methods in paragraph (h)(2) of this section. The owner or operator must record and report any instances where visible emissions are observed for more than 5 minutes during any 2 consecutive hours as specified in §63.655(g)(11)(ii).	Y	
63.670(i)	Compliance requirements for flare vent gas, steam assist, and air assist flow rate monitoring	Y	
63.670(j)	Flare vent gas composition monitoring compliance methods §63.670(j)(6)(ii) does not apply. Instead submit the information required by §63.670(j)(6)(ii) with the Notification of Compliance Status according to §63.2382(d)(2)(ix).	Y	
63.670(k)	Calculation methods for cumulative flow rates and determining compliance with Vtip operating limits	Y	
63.670(l)	Calculation methods for determining flare vent gas net heating value	Y	
63.670(m)	Calculation methods for determining combustion zone heating value	Y	
63.670(n)	Calculation methods for determining the net heating value dilution parameter.	Y	
63.670(p)	Flare Monitoring Records: The owner or operator shall keep the records specified in 63.2390(h)	Y	
63.670(q)	Reporting: The owner or operator shall comply with the reporting requirements specified in 63.2382(d)(2)(ix) and 63.2386(d)(5).	Y	
63.670(r)	Alternative means of emissions limitation. An owner or operator may request approval from the Administrator for site-specific operating limits that shall apply specifically to a selected flare. The request shall be completed in accordance with 63.2380(i).	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671	Requirements for flare monitoring systems	Y	
63.671(a)	For each CPMS installed to comply with applicable provisions in §63.670, the owner or operator shall install, operate, calibrate, and maintain the CPMS as specified in paragraphs (a)(1) through (8) of this section.	Y	
63.671(a)(1)	Except for CPMS installed for pilot flame or flare flame monitoring, all monitoring equipment must meet the applicable minimum accuracy, calibration and quality control requirements specified in table 13 of this subpart.	Y	
63.671(a)(2)	The readout of the CPMS that provides a visual display, record, or other indication of the monitored operating parameter from any CPMS required for compliance is readily accessible onsite for operational control or inspection by the operator of the source.	Y	
63.671(a)(3)	All CPMS must complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period.	Y	
63.671(a)(4)	Operate CPMS and collect all data continuously except for periods of malfunction, repair, or quality control activities.	Y	
63.671(a)(5)	Operate, maintain, and calibrate each CPMS according to the CPMS monitoring plan specified in paragraph (b) of this section.	Y	
63.671(a)(6)	For each CPMS except for CPMS installed for pilot flame monitoring, the owner or operator shall comply with the out-of-control procedures described in paragraphs (c) of this section.	Y	
63.671(a)(7)	Reduce data from a CPMS as specified in paragraph (d) of this section.	Y	
63.671(a)(8)	The CPMS must be capable of measuring the appropriate parameter over the range of values expected for that measurement location. The data recording system associated with each CPMS must have a resolution that is equal to or better than the required system accuracy.	Y	
63.671(b)	CPMS Monitoring Plan Requirements. The CPMS monitoring plan must contain the information listed in paragraphs (b)(1) through (5) of this section.	Y	
63.671(b)(1)	Identification of the specific flare being monitored and the flare type (air-assisted only, steam-assisted only, air- and steam-assisted, pressure-assisted, or non-assisted).	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671(b)(2)	Identification of the parameter to be monitored by the CPMS and the expected parameter range, including worst case and normal operation.	Y	
63.671(b)(3)	Description of the monitoring equipment, including the information specified in (b)(3)(i) through (vii) of this section.	Y	
63.671(b)(4)	Description of the data collection and reduction systems, including the information specified in paragraphs (b)(4)(i) through (iii) of this section.	Y	
63.671(b)(5)	Routine quality control and assurance procedures, including descriptions of the procedures listed in paragraphs (b)(5)(i) through (vi) of this section and a schedule for conducting these procedures. The routine procedures must provide an assessment of CPMS performance.	Y	
63.671(c)	Requirements for out of control periods	Y	
63.671(c)(1)	A CPMS is out-of-control if the zero (low-level), mid-level (if applicable) or high-level calibration drift exceeds two times the accuracy requirement of table 13 of this subpart.	Y	
63.671(c)(2)	Corrective action requirements for periods the CPMS is out of control.	Y	
63.671(d)	CPMS data reduction. The owner or operator shall reduce data from a CPMS installed to comply with applicable provisions in §63.670 as specified in paragraphs (d)(1) through (3) of this section	Y	
63.671(e)	Additional requirements for gas chromatographs. For monitors used to determine compositional analysis for net heating value per §63.670(j)(1), the gas chromatograph must also meet the requirements of paragraphs (e)(1) through (3) of this section.	Y	
63.671(e)(1)	The quality assurance requirements are in table 13 of this subpart.	Y	
63.671(e)(2)	Calibration gas requirements	Y	
63.671(e)(3)	Surrogate calibration gas requirements	Y	
40 CFR 63 Subpart CC	NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (11/19/2020) (Listed flares are subject to requirements of Subpart CC per 40 CFR 63.2450(e)(5), but are not subject to Subpart CC. Requirements below reflect requirements as directed by 63.2450(e)(5)(i-xiii).)		

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(b)	Pilot Flame or Flare Flame Presence: Operate with a pilot flame or flare flame at all times when the regulated material is routed to the flare. Each 15-minute block during which there is at least one minute where no pilot flame or flare flame is present when regulated material is routed to the flare is a deviation of the standard.	Y	
63.670(c)	Visible Emissions: Specify the smokeless design capacity of each flare and operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when regulated material is routed to the flare and the flare vent gas flow is less than the smokeless design capacity of the flare. The owner or operator shall monitor for visible emissions from the flare as specified in paragraph (h) of this section.	Y	
63.670(d)	Flare Tip Velocity: Compliance options for when the flare vent gas flow is less than the smokeless design capacity of the flare. (The requirement effectively applies starting with the 15-minute block that includes a full 15 minutes of the flaring event. You are required to demonstrate compliance with the velocity and NHVcz requirements starting with the block that contains the fifteenth minute of a flaring event. You are not required to demonstrate compliance for the previous 15-minute block in which the event started and contained only a fraction of flow.)	Y	
63.670(e)	Combustion Zone Operating Limits: Maintain the net heating value of the flare combustion zone at or above 270 Btu/scf determined on a 15-min block period basis when regulated material is routed to the flare. The owner or operator shall monitor and calculate NHVcz as specified in paragraph (m) of this section. (The requirement effectively applies starting with the 15-minute block that includes a full 15 minutes of the flaring event. You are required to demonstrate compliance with the velocity and NHVcz requirements starting with the block that contains the fifteenth minute of a flaring event. You are not required to demonstrate compliance for the previous 15-minute block in which the event started and contained only a fraction of flow.)	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(f)	Dilution operating limits for flares with perimeter assist air. Except as provided in paragraph (f)(1) of this section, for each flare actively receiving perimeter assist air, the owner or operator shall operate the flare to maintain the net heating value dilution parameter (NHVdil) at or above 22 British thermal units per square foot (Btu/ft ²) determined on a 15-minute block period basis when regulated material is being routed to the flare for at least 15-minutes. The owner or operator shall monitor and calculate NHVdil as specified in paragraph (n) of this section	Y	
63.670(f)(1)	If the only assist air provided to a specific flare is perimeter assist air intentionally entrained in lower and/or upper steam at the flare tip and the effective diameter is 9 inches or greater, the owner or operator shall comply only with the NHVcz operating limit in paragraph (e) of this section for that flare.	Y	
63.670(g)	Continuously monitor the presence of the pilot flame or flare flame.	Y	
63.670(h)	Visible emissions monitoring. The owner or operator shall conduct an initial visible emissions demonstration using an observation period of 2 hours using Method 22 at 40 CFR part 60, appendix A-7. The initial visible emissions demonstration should be conducted the first time regulated materials are routed to the flare. Subsequent visible emissions observations must be conducted using either the methods in paragraph (h)(1) of this section or, alternatively, the methods in paragraph (h)(2) of this section. The owner or operator must record and report any instances where visible emissions are observed for more than 5 minutes during any 2 consecutive hours as specified in §63.655(g)(11)(ii).	Y	
63.670(i)	Compliance requirements for flare vent gas, steam assist, and air assist flow rate monitoring	Y	
63.670(j)	Flare vent gas composition monitoring compliance methods	Y	
63.670(k)	Calculation methods for cumulative flow rates and determining compliance with Vtip operating limits	Y	
63.670(l)	Calculation methods for determining flare vent gas net heating value	Y	
63.670(m)	Calculation methods for determining combustion zone heating value	Y	
63.670(n)	Calculation methods for determining the net heating value dilution parameter.	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(o)	Emergency Flaring Provisions for flares with potential to operate above its smokeless capacity. Develop and implement the flare management plan upon initial startup or on August 12, 2023, whichever is later. Submit as directed by 63.2450(e)(5)(iv) and 63.2450(e)(5)(vii). When conducting a root cause analysis, comply with the requirements of 63.2450(e)(5)(v). 63.670(o)(3)(ii) of subpart CC and all references to §63.670(o)(3)(ii) of subpart CC do not apply. Instead, the owner or operator must comply with the maximum flare tip velocity operating limit at all times.	Y	
63.670(p)	Flare Monitoring Records: The owner or operator shall keep the records specified in 63.2525(m).	Y	
63.670(q)	Reporting: The owner or operator shall comply with the reporting requirements specified in 63.2520(d)(3) and 63.2520(e)(11).	Y	
63.670(r)	Alternative means of emissions limitation. An owner or operator may request approval from the Administrator for site-specific operating limits that shall apply specifically to a selected flare. The request shall be completed in accordance with 63.2450(e)(5)(xiii).	Y	
63.671	Requirements for flare monitoring systems	Y	
63.671(a)	For each CPMS installed to comply with applicable provisions in §63.670, the owner or operator shall install, operate, calibrate, and maintain the CPMS as specified in paragraphs (a)(1) through (8) of this section.	Y	
63.671(a)(1)	Except for CPMS installed for pilot flame monitoring, all monitoring equipment must meet the applicable minimum accuracy, calibration and quality control requirements specified in table 13 of this subpart.	Y	
63.671(a)(2)	The readout of the CPMS that provides a visual display, record, or other indication of the monitored operating parameter from any CPMS required for compliance is readily accessible onsite for operational control or inspection by the operator of the source.	Y	
63.671(a)(3)	All CPMS must complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period.	Y	
63.671(a)(4)	Operate CPMS and collect all data continuously except for periods of malfunction, repair, or quality control activities.	Y	
63.671(a)(5)	Operate, maintain, and calibrate each CPMS according to the CPMS monitoring plan specified in paragraph (b) of this section.	Y	

**Table IV – C.2.1
 Source-specific Applicable Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671(a)(6)	For each CPMS except for CPMS installed for pilot flame monitoring, the owner or operator shall comply with the out-of-control procedures described in paragraphs (c) of this section.	Y	
63.671(a)(7)	Reduce data from a CPMS as specified in paragraph (d) of this section.	Y	
63.671(a)(8)	The CPMS must be capable of measuring the appropriate parameter over the range of values expected for that measurement location. The data recording system associated with each CPMS must have a resolution that is equal to or better than the required system accuracy.	Y	
63.671(b)	CPMS Monitoring Plan Requirements. The CPMS monitoring plan must contain the information listed in paragraphs (b)(1) through (5) of this section.	Y	
63.671(b)(1)	Identification of the specific flare being monitored and the flare type (air-assisted only, steam-assisted only, air- and steam-assisted, pressure-assisted, or non-assisted).	Y	
63.671(b)(2)	Identification of the parameter to be monitored by the CPMS and the expected parameter range, including worst case and normal operation.	Y	
63.671(b)(3)	Description of the monitoring equipment, including the information specified in (b)(3)(i) through (vii) of this section.	Y	
63.671(b)(4)	Description of the data collection and reduction systems, including the information specified in paragraphs (b)(4)(i) through (iii) of this section.	Y	
63.671(b)(5)	Routine quality control and assurance procedures, including descriptions of the procedures listed in paragraphs (b)(5)(i) through (vi) of this section and a schedule for conducting these procedures. The routine procedures must provide an assessment of CPMS performance.	Y	
63.671(c)	Requirements for out of control periods	Y	
63.671(c)(1)	A CPMS is out-of-control if the zero (low-level), mid-level (if applicable) or high-level calibration drift exceeds two times the accuracy requirement of table 13 of this subpart.	Y	
63.671(c)(2)	Corrective action requirements for periods the CPMS is out of control.	Y	
63.671(d)	CPMS data reduction. The owner or operator shall reduce data from a CPMS installed to comply with applicable provisions in §63.670 as specified in paragraphs (d)(1) through (3) of this section	Y	

Table IV – C.2.1
Source-specific Applicable Requirements

Flares Subject to NSPS via Consent Decree Condition 24324
S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671(e)	Additional requirements for gas chromatographs. For monitors used to determine compositional analysis for net heating value per §63.670(j)(1), the gas chromatograph must also meet the requirements of paragraphs (e)(1) through (3) of this section.	Y	
63.671(e)(1)	The quality assurance requirements are in table 13 of this subpart.	Y	
63.671(e)(2)	Calibration gas requirements	Y	
63.671(e)(3)	Surrogate calibration gas requirements	Y	
BAAQMD Condition 19528			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (Basis: Regulation 2-6-409.2)	Y	
Part 11C	Inspection procedure for "Flaring Event" (Basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for "Visual Inspection" of a flaring event (Basis: Regulation 2-6-403)	Y	
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (Basis: Regulation 2-6-501; 2-6-409.2)	Y	
BAAQMD Condition 23129	Applies to S1517 only		
Part 51	Requirement to inject steam in flare (Basis: BACT)	Y	
Part 52	POC abatement efficiency (Basis: BACT)	Y	
Part 53	Flare pilots natural gas requirement and annual throughput (Basis: cumulative increase)	Y	
Part 54	Comply with NSPS Subpart J (Basis: Consent Decree 23562)	Y	
Part 55	H2S CEM (Basis: Regulation 12, Rule 11)	Y	
Part 56	Flare purge natural gas requirement and annual throughput (Basis: cumulative increase)	Y	
Part 57	Recordkeeping S-1517 (Basis: Regulation 2-6-501)	Y	
BAAQMD Condition 24324	Applies to S854, S992, S1012 and S1517 only		
Part 1	Operate only when in compliance with NSPS (Basis: Consent Decree §§ 231 and 238)	Y	

Table IV – C.2.1
Source-specific Applicable Requirements

Flares Subject to NSPS via Consent Decree Condition 24324
S854 - East Air Flare, S992-Emergency Flare, S1012 West Air Flare, S1517 - Coker Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Comply with NSPS J by operating and maintaining flare gas recovery system. Exemption from H2S monitoring and recordkeeping in §§ 60.105(a)(4) and 60.7. [Basis: Consent Decree §§ 233, 235(a)]	Y	
Part 3	Minimize emissions when performing maintenance on Flare Gas Recovery System (Basis: Consent Decree § 263)	Y	
Part 4	Flare gas recovery system may be bypassed in event of an emergency, including unscheduled maintenance to ensure continued safe operation (Basis: Consent Decree § 264)	Y	
Part 5	Exemption from 60.104(a)(1). [Basis: Consent Decree §§ 241]	Y	
BAAQMD Condition 26791			
Part 1	Shall use only natural gas as a supplemental gas necessary to comply with the minimum Net Heating Value at combustion zone (NHVcz) of 270 Btu/scf. (Basis: NESHAP 40 CFR 63.670(e))	Y	
Part 2	Hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis. (Basis: Regulations 2-1-403, NESHAP 40 CFR 63.670)	Y	
Part 3	Natural gas throughput limits. (Basis: Toxics, Regulation 2-1-320, 2-1-403)	Y	
Part 5	Gas flow rate monitoring. (Basis: NESHAP 40 CFR 63.670(i))	Y	
Part 6	Update and maintain the Flare Minimization Plan (FMP) (Basis: Regulation 12, Rule 12)	Y	
Part 7	Shall install and operate a continuous parametric monitoring system (CPMS) along with a CPMS monitoring plan as required by and consistent with 40 CFR 63.671(b). (Basis: NESHAP 40 CFR 63.671, Regulation 1-523)	Y	
Part 8	Recordkeeping (Basis: Recordkeeping, NESHAP 40 CFR 63.670(e), Regulation 2-1-403)	Y	

Table IV – C.2.2
Source-specific Applicable Requirements

S943 - Butane Tank 691 Safety Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (7/31/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 12 Rule 11	Miscellaneous Standards of Performance – Flare Monitoring at Refineries (11/03/2021)		
12-11-110	Exemption, Organic Liquid Storage and Distribution	N	
BAAQMD Regulation 12 Rule 12	Miscellaneous Standards of Performance – Flares at Refineries (11/03/2021)		
12-12-110	Exemption, Organic Liquid Storage and Distribution	N	
BAAQMD Condition 19528			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (Basis: Regulation 2-6-409.2)	Y	
Part 11C	Inspection procedure for "Flaring Event" (Basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for "Visual Inspection" of a flaring event (Basis: Regulation 2-6-403)	Y	
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (Basis: Regulation 2-6-501; 2-6-409.2)	Y	

NOTE – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK S691) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM A21. A21 FUNCTIONS AS A FLARE GAS RECOVERY SYSTEM AND CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

**Table IV – C.2.3
 Source-specific Applicable Requirements**

**Flares Not Subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

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	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (7/31/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 12 Rule 11	Miscellaneous Standards of Performance – Flare Monitoring at Refineries (11/03/2021)		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	

**Table IV – C.2.3
 Source-specific Applicable Requirements**

**Flares Not Subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-11-501	Vent Gas Flow Monitoring	N	
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	
12-11-507	Video Monitoring	N	
12-11-601	Testing, Sampling, and Analytical Methods	N	
12-11-602	Flow Verification Test Methods	N	
BAAQMD Regulation 12 Rule 12	Miscellaneous Standards of Performance – Flares at Refineries (11/03/2021)		
12-12-301	Flare Minimization	N	
12-12-404	Update of Flare Minimization Plans	N	
12-12-405	Notification of Flaring	N	
12-12-406	Determination and Reporting of Cause	N	
12-12-408	Designation of Confidential Information	N	
12-12-501	Water Seal Integrity Monitoring	N	
40 CFR 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) (11/19/2020) (Applies when a listed flare is used to reduce organic HAP emissions pursuant to 63.2380(a)).	Y	
63.2380	What are my requirements for certain flares?	Y	
63.2380(a)	Meet the applicable requirements for flares as specified in §§63.670 and 63.671, including the provisions in Tables 12 and 13 to subpart CC of this part, except as specified in paragraphs (b) through (m) of this section.	Y	
63.2380(b)	The following phrases in §63.670(c) do not apply.	Y	
63.2380(c)	The phrase “and the flare vent gas flow rate is less than the smokeless design capacity of the flare” in §63.670(d) does not apply.	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2380(d)	Section 63.670(j)(6)(ii) does not apply. Instead submit the information required by §63.670(j)(6)(ii) with the Notification of Compliance Status according to §63.2382(d)(2)(ix).	Y	
63.2380(e)	Section 63.670(o) does not apply.	Y	
63.2380(f)	Substitute “pilot flame or flare flame” or each occurrence of “pilot flame.”	Y	
63.2380(g)	Substitute “affected source” for each occurrence of “petroleum refinery.”	Y	
63.2380(h)	Each occurrence of “refinery” does not apply.	Y	
63.2380(i)	You may elect to comply with the alternative means of emissions limitation requirements specified in §63.670(r) in lieu of the requirements in §63.670(d) through (f), as applicable. However, instead of complying with §63.670(r)(3)(iii), you must also submit the alternative means of emissions limitation request to the following address: U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, U.S. EPA Mailroom (E143-01), Attention: Organic Liquids Distribution Sector Lead, 109 T.W. Alexander Drive, Research Triangle Park, NC 27711. Electronic copies in lieu of hard copies may also be submitted to oldtr@epa.gov.	Y	
63.2380(j)	If you choose to determine compositional analysis for net heating value with a continuous process mass spectrometer, then you must comply with the requirements specified in paragraphs (j)(1) through (7) of this section.	Y	
63.2380(k)	If you use a gas chromatograph or mass spectrometer for compositional analysis for net heating value, then you may choose to use the CE of NHV measured versus the cylinder tag value NHV as the measure of agreement for daily calibration and quarterly audits in lieu of determining the compound-specific CE.	Y	
40 CFR 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (11/19/2020) (Applies when a listed flare is used to reduce organic HAP emissions pursuant to 63.2450(e)(5)).	Y	
63.2450(e)(5)	For any flare that is used to reduce organic HAP emissions from an MCPU, you may elect to comply with the requirements in this paragraph in lieu of the requirements of §63.982(b).	Y	

**Table IV – C.2.3
 Source-specific Applicable Requirements**

**Flares Not Subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(e)(5)(ix)	(ix) If you choose to determine compositional analysis for net heating value with a continuous process mass spectrometer, comply with the requirements specified in paragraphs (e)(5)(ix)(A) through (G).	Y	
63.2450(e)(5)(x)	(x) If you use a gas chromatograph or mass spectrometer for compositional analysis for net heating value, then you may choose to use the CE of NHV measured versus the cylinder tag value NHV as the measure of agreement for daily calibration and quarterly audits in lieu of determining the compound-specific CE. The CE for NHV at any calibration level must not differ by more than 10 percent from the certified cylinder gas value. The CE for must be calculated using Equation 2 to this paragraph 63.2450(e)(5)(x).	Y	
40 CFR 63 Subpart CC	NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (11/19/2020) (Listed flares are subject to requirements of Subpart CC per 40 CFR 63.2380(a), but are not subject to Subpart CC. Requirements below reflect requirements as directed by 63.2380(b) through (m).)		
63.670	Applicability: Flares used as a control device for an emission point subject to this subpart	Y	
63.670(b)	Pilot Flame or Flare Flame Presence: Operate with a pilot flame and flare flame at all times when the regulated material is routed to the flare. Each 15-minute block during which there is at least one minute where no pilot flame or flare flame is present when regulated material is routed to the flare is a deviation of the standard.	Y	
63.670(c)	Visible Emissions: Operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when regulated material is routed to the flare. The owner or operator shall monitor for visible emissions from the flare as specified in paragraph (h) of this section.	Y	
63.670(d)	Flare Tip Velocity: Compliance options for whenever regulated material is routed to the flare for at least 15-minutes.	Y	

**Table IV – C.2.3
 Source-specific Applicable Requirements**

**Flares Not Subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(e)	Combustion Zone Operating Limits: Maintain the net heating value of the flare combustion zone at or above 270 Btu/scf determined on a 15-min block period basis when regulated material is routed to the flare. The owner or operator shall monitor and calculate NHVcz as specified in paragraph (m) of this section. (The requirement effectively applies starting with the 15-minute block that includes a full 15 minutes of the flaring event. You are required to demonstrate compliance with the velocity and NHVcz requirements starting with the block that contains the fifteenth minute of a flaring event. You are not required to demonstrate compliance for the previous 15-minute block in which the event started and contained only a fraction of flow.)	Y	
63.670(f)	Dilution operating limits for flares with perimeter assist air. Except as provided in paragraph (f)(1) of this section, for each flare actively receiving perimeter assist air, the owner or operator shall operate the flare to maintain the net heating value dilution parameter (NHVdil) at or above 22 British thermal units per square foot (Btu/ft ²) determined on a 15-minute block period basis when regulated material is being routed to the flare for at least 15-minutes. The owner or operator shall monitor and calculate NHVdil as specified in paragraph (n) of this section	Y	
63.670(f)(1)	If the only assist air provided to a specific flare is perimeter assist air intentionally entrained in lower and/or upper steam at the flare tip and the effective diameter is 9 inches or greater, the owner or operator shall comply only with the NHVcz operating limit in paragraph (e) of this section for that flare.	Y	
63.670(g)	Continuously monitor the presence of the pilot flame or flare flame.	Y	
63.670(h)	Visible emissions monitoring. The owner or operator shall conduct an initial visible emissions demonstration using an observation period of 2 hours using Method 22 at 40 CFR part 60, appendix A-7. The initial visible emissions demonstration should be conducted the first time regulated materials are routed to the flare. Subsequent visible emissions observations must be conducted using either the methods in paragraph (h)(1) of this section or, alternatively, the methods in paragraph (h)(2) of this section. The owner or operator must record and report any instances where visible emissions are observed for more than 5 minutes during any 2 consecutive hours as specified in §63.655(g)(11)(ii).	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(i)	Compliance requirements for flare vent gas, steam assist, and air assist flow rate monitoring	Y	
63.670(j)	Flare vent gas composition monitoring compliance methods §63.670(j)(6)(ii) does not apply. Instead submit the information required by §63.670(j)(6)(ii) with the Notification of Compliance Status according to §63.2382(d)(2)(ix).	Y	
63.670(k)	Calculation methods for cumulative flow rates and determining compliance with Vtip operating limits	Y	
63.670(l)	Calculation methods for determining flare vent gas net heating value	Y	
63.670(m)	Calculation methods for determining combustion zone heating value	Y	
63.670(n)	Calculation methods for determining the net heating value dilution parameter.	Y	
63.670(p)	Flare Monitoring Records: The owner or operator shall keep the records specified in 63.2390(h).	Y	
63.670(q)	Reporting: The owner or operator shall comply with the reporting requirements specified in 63.2382(d)(2)(ix) and 63.2386(d)(5).	Y	
63.670(r)	Alternative means of emissions limitation. An owner or operator may request approval from the Administrator for site-specific operating limits that shall apply specifically to a selected flare. The request shall be completed in accordance with 63.2380(i).	Y	
63.671	Requirements for flare monitoring systems	Y	
63.671(a)	For each CPMS installed to comply with applicable provisions in §63.670, the owner or operator shall install, operate, calibrate, and maintain the CPMS as specified in paragraphs (a)(1) through (8) of this section.	Y	
63.671(a)(1)	Except for CPMS installed for pilot flame and flare flame monitoring, all monitoring equipment must meet the applicable minimum accuracy, calibration and quality control requirements specified in table 13 of this subpart.	Y	
63.671(a)(2)	The readout of the CPMS that provides a visual display, record, or other indication of the monitored operating parameter from any CPMS required for compliance is readily accessible onsite for operational control or inspection by the operator of the source.	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671(a)(3)	All CPMS must complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period.	Y	
63.671(a)(4)	Operate CPMS and collect all data continuously except for periods of malfunction, repair, or quality control activities.	Y	
63.671(a)(5)	Operate, maintain, and calibrate each CPMS according to the CPMS monitoring plan specified in paragraph (b) of this section.	Y	
63.671(a)(6)	For each CPMS except for CPMS installed for pilot flame monitoring, the owner or operator shall comply with the out-of-control procedures described in paragraphs (c) of this section.	Y	
63.671(a)(7)	Reduce data from a CPMS as specified in paragraph (d) of this section.	Y	
63.671(a)(8)	The CPMS must be capable of measuring the appropriate parameter over the range of values expected for that measurement location. The data recording system associated with each CPMS must have a resolution that is equal to or better than the required system accuracy.	Y	
63.671(b)	CPMS Monitoring Plan Requirements. The CPMS monitoring plan must contain the information listed in paragraphs (b)(1) through (5) of this section.	Y	
63.671(b)(1)	Identification of the specific flare being monitored and the flare type (air-assisted only, steam-assisted only, air- and steam-assisted, pressure-assisted, or non-assisted).	Y	
63.671(b)(2)	Identification of the parameter to be monitored by the CPMS and the expected parameter range, including worst case and normal operation.	Y	
63.671(b)(3)	Description of the monitoring equipment, including the information specified in (b)(3)(i) through (vii) of this section.	Y	
63.671(b)(4)	Description of the data collection and reduction systems, including the information specified in paragraphs (b)(4)(i) through (iii) of this section.	Y	
63.671(b)(5)	Routine quality control and assurance procedures, including descriptions of the procedures listed in paragraphs (b)(5)(i) through (vi) of this section and a schedule for conducting these procedures. The routine procedures must provide an assessment of CPMS performance.	Y	
63.671(c)	Requirements for out of control periods	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671(c)(1)	A CPMS is out-of-control if the zero (low-level), mid-level (if applicable) or high-level calibration drift exceeds two times the accuracy requirement of table 13 of this subpart.	Y	
63.671(c)(2)	Corrective action requirements for periods the CPMS is out of control.	Y	
63.671(d)	CPMS data reduction. The owner or operator shall reduce data from a CPMS installed to comply with applicable provisions in §63.670 as specified in paragraphs (d)(1) through (3) of this sect		
63.671(e)	Additional requirements for gas chromatographs. For monitors used to determine compositional analysis for net heating value per §63.670(j)(1), the gas chromatograph must also meet the requirements of paragraphs (e)(1) through (3) of this section.	Y	
63.671(e)(1)	The quality assurance requirements are in table 13 of this subpart.	Y	
63.671(e)(2)	Calibration gas requirements	Y	
63.671(e)(3)	Surrogate calibration gas requirements	Y	
40 CFR 63 Subpart CC	NESHAPS - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries (11/19/2020) (Listed flares are subject to requirements of Subpart CC per 40 CFR 63.2450(e)(5), but are not subject to Subpart CC. Requirements below reflect requirements as directed by 63.2450(e)(5)(i-xiii).)		
63.670(b)	Pilot Flame or Flare Flame Presence: Operate with a pilot flame or flare flame at all times when the regulated material is routed to the flare. Each 15-minute block during which there is at least one minute where no pilot flame or flare flame is present when regulated material is routed to the flare is a deviation of the standard.	Y	
63.670(c)	Visible Emissions: Specify the smokeless design capacity of each flare and operate with no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours, when regulated material is routed to the flare and the flare vent gas flow is less than the smokeless design capacity of the flare. The owner or operator shall monitor for visible emissions from the flare as specified in paragraph (h) of this section.	Y	

**Table IV – C.2.3
 Source-specific Applicable Requirements**

**Flares Not Subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(d)	Flare Tip Velocity: Compliance options for when the flare vent gas flow is less than the smokeless design capacity of the flare. (The requirement effectively applies starting with the 15-minute block that includes a full 15 minutes of the flaring event. You are required to demonstrate compliance with the velocity and NHVcz requirements starting with the block that contains the fifteenth minute of a flaring event. You are not required to demonstrate compliance for the previous 15-minute block in which the event started and contained only a fraction of flow.)	Y	
63.670(e)	Combustion Zone Operating Limits: Maintain the net heating value of the flare combustion zone at or above 270 Btu/scf determined on a 15-min block period basis when regulated material is routed to the flare. The owner or operator shall monitor and calculate NHVcz as specified in paragraph (m) of this section. (The requirement effectively applies starting with the 15-minute block that includes a full 15 minutes of the flaring event. You are required to demonstrate compliance with the velocity and NHVcz requirements starting with the block that contains the fifteenth minute of a flaring event. You are not required to demonstrate compliance for the previous 15-minute block in which the event started and contained only a fraction of flow.)	Y	
63.670(f)	Dilution operating limits for flares with perimeter assist air. Except as provided in paragraph (f)(1) of this section, for each flare actively receiving perimeter assist air, the owner or operator shall operate the flare to maintain the net heating value dilution parameter (NHVdil) at or above 22 British thermal units per square foot (Btu/ft ²) determined on a 15-minute block period basis when regulated material is being routed to the flare for at least 15-minutes. The owner or operator shall monitor and calculate NHVdil as specified in paragraph (n) of this section	Y	
63.670(f)(1)	If the only assist air provided to a specific flare is perimeter assist air intentionally entrained in lower and/or upper steam at the flare tip and the effective diameter is 9 inches or greater, the owner or operator shall comply only with the NHVcz operating limit in paragraph (e) of this section for that flare.	Y	
63.670(g)	Continuously monitor the presence of the pilot flame or flare flame.	Y	

**Table IV – C.2.3
 Source-specific Applicable Requirements**

**Flares Not Subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(h)	Visible emissions monitoring. The owner or operator shall conduct an initial visible emissions demonstration using an observation period of 2 hours using Method 22 at 40 CFR part 60, appendix A-7. The initial visible emissions demonstration should be conducted the first time regulated materials are routed to the flare. Subsequent visible emissions observations must be conducted using either the methods in paragraph (h)(1) of this section or, alternatively, the methods in paragraph (h)(2) of this section. The owner or operator must record and report any instances where visible emissions are observed for more than 5 minutes during any 2 consecutive hours as specified in §63.655(g)(11)(ii).	Y	
63.670(i)	Compliance requirements for flare vent gas, steam assist, and air assist flow rate monitoring	Y	
63.670(j)	Flare vent gas composition monitoring compliance methods	Y	
63.670(k)	Calculation methods for cumulative flow rates and determining compliance with Vtip operating limits	Y	
63.670(l)	Calculation methods for determining flare vent gas net heating value	Y	
63.670(m)	Calculation methods for determining combustion zone heating value	Y	
63.670(n)	Calculation methods for determining the net heating value dilution parameter.	Y	
63.670(o)	Emergency Flaring Provisions for flares with potential to operate above its smokeless capacity. Develop and implement the flare management plan upon initial startup or on August 12, 2023, whichever is later. Submit as directed by 63.2450(e)(5)(iv) and 63.2450(e)(5)(vii). When conducting a root cause analysis, comply with the requirements of 63.2450(e)(5)(v). 63.670(o)(3)(ii) of subpart CC and all references to §63.670(o)(3)(ii) of subpart CC do not apply. Instead, the owner or operator must comply with the maximum flare tip velocity operating limit at all times.	Y	
63.670(p)	Flare Monitoring Records: The owner or operator shall keep the records specified in 63.2525(m).	Y	
63.670(q)	Reporting: The owner or operator shall comply with the reporting requirements specified in 63.2520(d)(3) and 63.2520(e)(11).	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.670(r)	Alternative means of emissions limitation. An owner or operator may request approval from the Administrator for site-specific operating limits that shall apply specifically to a selected flare. The request shall be completed in accordance with 63.2450(e)(5)(xiii).	Y	
63.671	Requirements for flare monitoring systems	Y	
63.671(a)	For each CPMS installed to comply with applicable provisions in §63.670, the owner or operator shall install, operate, calibrate, and maintain the CPMS as specified in paragraphs (a)(1) through (8) of this section.	Y	
63.671(a)(1)	Except for CPMS installed for pilot flame monitoring, all monitoring equipment must meet the applicable minimum accuracy, calibration and quality control requirements specified in table 13 of this subpart.	Y	
63.671(a)(2)	The readout of the CPMS that provides a visual display, record, or other indication of the monitored operating parameter from any CPMS required for compliance is readily accessible onsite for operational control or inspection by the operator of the source.	Y	
63.671(a)(3)	All CPMS must complete a minimum of one cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period.	Y	
63.671(a)(4)	Operate CPMS and collect all data continuously except for periods of malfunction, repair, or quality control activities.	Y	
63.671(a)(5)	Operate, maintain, and calibrate each CPMS according to the CPMS monitoring plan specified in paragraph (b) of this section.	Y	
63.671(a)(6)	For each CPMS except for CPMS installed for pilot flame monitoring, the owner or operator shall comply with the out-of-control procedures described in paragraphs (c) of this section.	Y	
63.671(a)(7)	Reduce data from a CPMS as specified in paragraph (d) of this section.	Y	
63.671(a)(8)	The CPMS must be capable of measuring the appropriate parameter over the range of values expected for that measurement location. The data recording system associated with each CPMS must have a resolution that is equal to or better than the required system accuracy.	Y	
63.671(b)	CPMS Monitoring Plan Requirements. The CPMS monitoring plan must contain the information listed in paragraphs (b)(1) through (5) of this section.	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.671(b)(1)	Identification of the specific flare being monitored and the flare type (air-assisted only, steam-assisted only, air- and steam-assisted, pressure-assisted, or non-assisted).	Y	
63.671(b)(2)	Identification of the parameter to be monitored by the CPMS and the expected parameter range, including worst case and normal operation.	Y	
63.671(b)(3)	Description of the monitoring equipment, including the information specified in (b)(3)(i) through (vii) of this section.	Y	
63.671(b)(4)	Description of the data collection and reduction systems, including the information specified in paragraphs (b)(4)(i) through (iii) of this section.	Y	
63.671(b)(5)	Routine quality control and assurance procedures, including descriptions of the procedures listed in paragraphs (b)(5)(i) through (vi) of this section and a schedule for conducting these procedures. The routine procedures must provide an assessment of CPMS performance.	Y	
63.671(c)	Requirements for out of control periods	Y	
63.671(c)(1)	A CPMS is out-of-control if the zero (low-level), mid-level (if applicable) or high-level calibration drift exceeds two times the accuracy requirement of table 13 of this subpart.	Y	
63.671(c)(2)	Corrective action requirements for periods the CPMS is out of control.	Y	
63.671(d)	CPMS data reduction. The owner or operator shall reduce data from a CPMS installed to comply with applicable provisions in §63.670 as specified in paragraphs (d)(1) through (3) of this sect		
63.671(e)	Additional requirements for gas chromatographs. For monitors used to determine compositional analysis for net heating value per §63.670(j)(1), the gas chromatograph must also meet the requirements of paragraphs (e)(1) through (3) of this section.	Y	
63.671(e)(1)	The quality assurance requirements are in table 13 of this subpart.	Y	
63.671(e)(2)	Calibration gas requirements	Y	
63.671(e)(3)	Surrogate calibration gas requirements	Y	
BAAQMD Condition 19528			
Part 11B	Definition of "Flaring Event" and inspection frequency requirements (Basis: Regulation 2-6-409.2)	Y	

Table IV – C.2.3
Source-specific Applicable Requirements

Flares Not Subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11C	Inspection procedure for "Flaring Event" (Basis: Regulation 6-1-301; 2-1-403)	Y	
Part 11D	Requirements for "Visual Inspection" of a flaring event (Basis: Regulation 2-6-403)	Y	
Part 11E	Recordkeeping of "Flaring Events" and visible emissions check (Basis: Regulation 2-6-501; 2-6-409.2)	Y	
BAAQMD Condition 26791			
Part 1	Shall use only natural gas as a supplemental gas necessary to comply with the minimum Net Heating Value at combustion zone (NHVcz) of 270 Btu/scf. (Basis: NESHAP 40 CFR 63.670(e))	Y	
Part 2	Hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis. (Basis: Regulations 2-1-403, NESHAP 40 CFR 63.670)	Y	
Part 3	Natural gas throughput limits. (Basis: Toxics, Regulation 2-1-320, 2-1-403)	Y	
Part 5	Gas flow rate monitoring. (Basis: NESHAP 40 CFR 63.670(i))	Y	
Part 6	Update and maintain the Flare Minimization Plan (FMP) (Basis: Regulation 12, Rule 12)	Y	
Part 7	Shall install and operate a continuous parametric monitoring system (CPMS) along with a CPMS monitoring plan as required by and consistent with 40 CFR 63.671(b). (Basis: NESHAP 40 CFR 63.671, Regulation 1-523)	Y	
Part 8	Recordkeeping (Basis: Recordkeeping, NESHAP 40 CFR 63.670(e), Regulation 2-1-403)	Y	

Table IV – C.2.4
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Section C.3 Combustion - Internal Combustion Engines

Table IV – C.3.1
Source-specific Applicable Requirements

Facility B2759
S57 - Off-Shore/Wharf Fire-Water Pump Diesel Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For Emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For Emergency Standby Engines	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 (11/03/2021)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		

**Table IV – C.3.1
 Source-specific Applicable Requirements**

**Facility B2759
 S57 - Off-Shore/Wharf Fire-Water Pump Diesel Engine**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-110	Exemptions	N	
9-8-110.5	Exemptions; Emergency Standby Engines	N	
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	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations (Amended May 19, 2011) Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed before January 1, 2005)		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.3	Exemptions	N	
93115.3(n)	Operating limits in 93115.6(b)(3) do not apply to in-use emergency fire pumps driven by stationary CI engines and are only operated the number of hours necessary to comply with NFPA 25 testing requirements.	N	
93115.4	Definitions	N	
93115.4(41)	"In-Use" means a CI engine that is not a "new" CI engine	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.10	Recordkeeping, Reporting and Monitoring	N	

**Table IV – C.3.1
 Source-specific Applicable Requirements**

**Facility B2759
 S57 - Off-Shore/Wharf Fire-Water Pump Diesel Engine**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(c)	Notification of Loss of Exemption	N	
93115.10(c)(1)	Notification of Loss of Exemption – In-use engines	N	
93115.10(c)(1)(A)	Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies	N	
93115.10(d)	Monitoring equipment	N	
93115.10(d)(1)	Non resettable hour meter	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for Existing Stationary RICE > 500 bhp		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(1)	An existing stationary RICE is:	Y	
63.6590(a)(1)(i)	More than 500 bhp located at a major source of HAPs which commenced construction before December 19, 2002	Y	
63.6590(b)(3)	Stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements if it is an existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;	Y	
63.6590(b)(3)(iii)	Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;	Y	
BAAQMD Condition 22851			

Table IV – C.3.1
Source-specific Applicable Requirements

Facility B2759
S57 - Off-Shore/Wharf Fire-Water Pump Diesel Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	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)]	N	

**Table IV – C.3.2
 Source-specific Applicable Requirements**

**S952 - Internal Combustion Engine,
 S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine,
 Spark Ignition, 4-stroke, Rich Burn Engines, each abated by non-selective catalytic reduction**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	N	
9-8-301.1	NOx Limits for Rich Burn Engines - 25 ppmvd, corrected to 15% O2	N	
9-8-301.3	CO Limits - 2000 ppmvd, corrected to 15% O2	Y	
9-8-401	Compliance schedule – submit ATC as necessary to achieve compliance with NOx limits	N	
9-8-502	Recordkeeping	N	
9-8-502.3	Maintain records of quarterly monitoring data	N	
9-8-503	Quarterly NOx and CO compliance monitoring	N	
9-8-601	Determination of NOx Emissions	N	
9-8-602	Determination of CO and O2 Emissions	Y	
SIP Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (04/17/1997)		

**Table IV – C.3.2
 Source-specific Applicable Requirements**

**S952 - Internal Combustion Engine,
 S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine,
 Spark Ignition, 4-stroke, Rich Burn Engines, each abated by non-selective catalytic reduction**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.1	NOx Limits for Rich Burn Engines – 56 ppmvd, corrected to 15% O2	Y	
9-8-601	Determination of NOx Emissions	Y	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for Non-Emergency Spark Ignition 4-Stroke Rich Burn Existing Stationary RICE		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(1)	An existing stationary RICE (at a major source of HAPs) is:	Y	
63.6590(a)(1) (ii)	≤500 bhp if commenced construction before June 12, 2006	Y	
63.6602	Existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.	Y	
63.6605	General compliance requirements	Y	
63.6605(a)	Must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times	Y	
63.6605(b)	At all times you must 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	
63.6625	Monitoring, installation, collection, operation, and maintenance requirements	Y	

**Table IV – C.3.2
 Source-specific Applicable Requirements**

**S952 - Internal Combustion Engine,
 S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine,
 Spark Ignition, 4-stroke, Rich Burn Engines, each abated by non-selective catalytic reduction**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6625(h)	Minimize time spent at idle during startup and minimize startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2c, apply.	Y	
63.6655	Recordkeeping	Y	
63.6655(a)	Must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section	Y	
63.6655(a)(1)	Recordkeeping: a copy of each notification and report	Y	
63.6655(a)(2)	Recordkeeping: Records of the occurrence and duration of each malfunction of operation	Y	
63.6655(a)(3)	Recordkeeping: Records of performance tests and performance evaluations	Y	
63.6655(a)(4)	Recordkeeping: Records of all required maintenance performed on the air pollution control and monitoring equipment	Y	
63.6655(a)(5)	Recordkeeping: Records of actions taken during periods of malfunction to minimize emissions	Y	
63.6660	Recordkeeping: Records must be in a form readily available for expeditious review and must be maintained 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.6660(a)	Record format	Y	
63.6660(b)	Record retention period - 5 years	Y	
63.6660(c)	Record format and retention– hard copy or electronic for 5 years	Y	
63.6665	Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply	Y	
Table 2c to Subpart ZZZZ of Part 63	Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE < 500 HP Located at a Major Source of HAP Emissions.	Y	
Table 2c Part 11	Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent O ₂ .	Y	
BAAQMD Condition 8077			

Table IV – C.3.2
Source-specific Applicable Requirements

**S952 - Internal Combustion Engine,
 S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine,
 Spark Ignition, 4-stroke, Rich Burn Engines, each abated by non-selective catalytic reduction**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B8A	Vapors from compressor seals must be collected and vented directly to No. 3 HDS Unit hydrogen make-up compressors, or to a closed gas system (Basis: cumulative increase, offsets, BACT)	Y	
BAAQMD Condition 15204			
Part 1	Compressor engines shall be fired exclusively on natural gas (Basis: cumulative increase)	Y	

Table IV – C.3.3
Source-specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – C.3.4
Source-specific Applicable Requirements

**S1471 - Landsend Fire water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter - General Requirements (7/31/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency standby engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	

**Table IV – C.3.4
 Source-specific Applicable Requirements**

**S1471 - Landsend Fire water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	Ringelmann Number 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (11/03/2021)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-110	Exemptions	N	
9-8-110.5	Exemption emergency standby engines	N	
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	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations (Amended May 29, 2011) - Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed prior to January 1, 2005)		

Table IV – C.3.4
Source-specific Applicable Requirements

S1471 - Landsend Fire water Pump Engine; Diesel Fired,
S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
S1487 - Tank 38 Firewater Pump Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.1	Purpose	N	
93115.2	Applicability	N	
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	
93115.4	Definitions	N	
93115.4(41)	"In-Use" means a CI engine that is not a "new" CI engine	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	N	
93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater than 50 bhp	N	
93115.5(b)	Fuel requirements for in-use emergency standby stationary diesel-fueled CI engines	N	
93115.10	Recordkeeping, Reporting and Monitoring	N	
93115.10(c)	Notification of Loss of Exemption	N	
93115.10(c)(1)	Notification of Loss of Exemption – In-use engines	N	
93115.10(c)(1)(A)	Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies	N	
93115.10(d)	Monitoring equipment	N	
93115.10(d)(1)	Non resettable hour meter	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for Existing Emergency Stationary RICE ≤ 500 bhp		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	

**Table IV – C.3.4
 Source-specific Applicable Requirements**

**S1471 - Landsend Fire water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(1)	An existing stationary RICE(at a major source of HAPs):	Y	
63.6590(a)(1)(ii)	≤ 500 bhp if commenced construction before June 12, 2006	Y	
63.6602	Emission limitations for existing stationary CI RICE ≤ 500 bhp – Comply with the emission limitations and Table 2c.	Y	
63.6605	General compliance requirements	Y	
63.6605(a)	Comply with applicable requirements at all times	Y	
63.6605(b)	Operate at all times in a manner consistent with safety and good air pollution control practices.	Y	
63.6625	Monitoring, installation, collection, operation, and maintenance requirements	Y	
63.6625(e)	Operate and maintain the engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own 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	Y	
63.6625(e)(2)	An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions	Y	
63.6625(f)	Existing emergency stationary RICE ≤ 500 bhp at major source must install non-resettable hour meter	Y	
63.6625(h)	Minimize time spent at idle during startup and minimize startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2c, apply.	Y	
63.6625(i)	Optional oil analysis program to extend the specified oil change requirement in Table 2c, item 1 for emergency CI RICE < 500 bhp at major source. Include analysis program in Maintenance Plan. Keep records of the parameters analyzes, analytical results, and oil changes for the engine.	Y	

**Table IV – C.3.4
 Source-specific Applicable Requirements**

**S1471 - Landsend Fire water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6640	Continuous Compliance Requirements	Y	
63.6640(a)	Demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart	Y	
63.6640(b)	Report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650	Y	
63.6640(e)	New RICE ≤ 500 HP at major facility not required to comply with requirements in Table 8 (Applicability of General Provisions)	Y	
63.6640(f)	The emergency stationary RICE must be operated according to requirements of (f)(1) through (4)	Y	
63.6640(f)(1)	No time limit on the use of emergency stationary RICE in emergency situations.	Y	
63.6640(f)(2)	No time limit for emergency stationary RICE in emergency situations	Y	
63.6640(f)(2)(i)	Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine.	Y	
63.6640(f)(3)	Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section.	Y	
63.6650	Reports	Y	
63.6650(d)	Report contents – deviations for sources without CMS	Y	
63.6650(f)	Report requirements for Title V permitted sources	Y	
63.6655	Recordkeeping	Y	
63.6655(d)	Recordkeeping – comply with Table 6	Y	

**Table IV – C.3.4
 Source-specific Applicable Requirements**

**S1471 - Landsend Fire water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6655(e)	Recordkeeping – maintenance records	Y	
63.6655(e)(2)	Existing stationary emergency CI RICE	Y	
63.6655(f)	Hours of operation from non-resettable hour meter for various modes of operation	Y	
63.6655(f)(1)	Existing stationary emergency CI RICE	Y	
63.6660	Record format and retention	Y	
63.6660(a)	Record format	Y	
63.6660(b)	Record retention period - 5 years	Y	
63.6660(c)	Record format and retention– hard copy or electronic for 5 years	Y	
Table 2c	Part 1: Emergency CI RICE. Except during periods of startup, comply with 1a, 1b and 1c. During periods of startup 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, after which time the non-startup emission limitations apply	Y	
Table 2c.1	Emergency stationary CI RICE and black start stationary CI RICE	Y	
Table 2c.1a	Change oil and filter every 500 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart	Y	
Table 2c.1b	Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary	Y	
Table 2c.1c	Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices	Y	
Table 6	Part 9: Continuous compliance for existing stationary CI RICE not subject to any numerical emission standards	Y	
BAAQMD Condition 20672	S-1487 Only		
Part A5	NOx limit of 9.65 g/bhp-hr (Basis: BACT)	Y	
Part A6	CO limit of 1.71 g/bhp-hr (Basis: BACT)	Y	
Part A8	Fuel requirements (Basis: BACT)	Y	

**Table IV – C.3.4
Source-specific Applicable Requirements**

**S1471 - Landsend Fire water Pump Engine; Diesel Fired,
S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 22851			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	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)]	N	

**Table IV – C.3.5
 Source-specific Applicable Requirements
 S1488 - Canal Fire-Water Pump Diesel Engine**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter - General Requirements (08/01/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For Emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For Emergency Standby Engines	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 (11/03/2021)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-110	Exemptions	N	
9-8-110.5	Emergency Standby Engines	N	
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	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	

Table IV – C.3.5
Source-specific Applicable Requirements
S1488 - Canal Fire-Water Pump Diesel Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations (Amended May 19, 2011) - Requirements for In-Use Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed prior to January 1, 2005)		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.3	Exemptions	N	
93115.3(n)	Operating limits in 93115.6(b)(3) do not apply to in-use emergency fire pumps driven by stationary CI engines and are only operated the number of hours necessary to comply with NFPA 25 testing requirements	N	
93115.4	Definitions	N	
93115.4(41)	"In-Use" means a CI engine that is not a "new" CI engine	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	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	
93115.10	ATCM for Stationary CI Engines – Recordkeeping, Reporting, and Monitoring Requirements	N	
93115.10(c)	Notification of Loss of Exemption	N	
93115.10(c)(1)	Notification of Loss of Exemption – In-use engines	N	
93115.10(c)(1)(A)	Report loss of 93115.6 exemption [93115.3(n)] no later than 180 days after exemption no longer applies	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(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.10(f)(1)	Records and monthly summary required	N	

Table IV – C.3.5
Source-specific Applicable Requirements
S1488 - Canal Fire-Water Pump Diesel Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(f)(2)	Record retention	N	
93115.15	Severability	N	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for New Emergency Stationary RICE > 500 bhp		
63.6585	Applicability: stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(i)	More than 500 bhp located at a major source of HAPs which commenced construction on or after December 19, 2002	Y	
63.6590(b)	Stationary RICE subject to limited requirements.	Y	
63.6590(b)(1)	Stationary RICE that meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f)	Y	
63.6590(b)(1)(i)	The stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAPs	Y	
BAAQMD Condition 20672			
Part B5	NOx limit of 8.0 g/bhp-hr (basis: BACT)	Y	
Part B6	CO limit of 1.15 g/bhp-hr (basis: BACT)	Y	
Part B7	PM10 limit of 0.22 g/bhp-hr (basis: BACT)	Y	
Part B9	Fuel requirements (basis: BACT)	Y	
BAAQMD Condition 22851			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	

Table IV – C.3.5
Source-specific Applicable Requirements

S1488 - Canal Fire-Water Pump Diesel Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	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)]	N	

**Table IV – C.3.6
 Source-specific Applicable Requirements**

**S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired,
 S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	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 (11/03/2021)		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
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	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	

Table IV – C.3.6
Source-specific Applicable Requirements

S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired,
S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations (Amended May 19, 2011) - Requirements for New Diesel-Fired Emergency Standby Fire-Pump Assemblies (Installed after January 1, 2005)		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	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(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(4)	New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(3) or 83115.6(a)(4)	N	
93115.6(a)(4)(A)	New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	N	
93115.6(a)(4)(A)(1)	New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	N	
93115.6(a)(4)(A)(1)(a)	Meet the applicable emissions standards for all pollutants as specified in Table 2 Emissions Standards for New Stationary Emergency Standby Direct-Drive Fire Pump Engines for the model year and NFPA nameplate power rating	N	
93115.6(a)(4)(A)(1)(b)	Meet new fire pump engine certification requirements and emissions standards required by 40 CFR 60.4202(d) Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (2006)	N	

Table IV – C.3.6
Source-specific Applicable Requirements

S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired,
S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(4)(A)(1)(c)	Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25 (2002 edition). No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(4)(B)	New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards	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 (S-1488 only)	N	
93115.10(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (08/10/2022)		
60.4200	Applicability	Y	
60.4200(a)	The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.	Y	
60.4200(a)(4)	The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(c)	Fire pump engines with displacement less than 30 l per cylinder must meet emission standards in Table 4 for all pollutants	Y	
60.4206	Meet Table 4 emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	

Table IV – C.3.6
Source-specific Applicable Requirements

S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired,
S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4208	What is the deadline for importing or installing stationary CI ICE produced in previous model years?	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4211	Compliance requirements	Y	
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer's written instructions.	Y	
60.4211(a)(1)	Operate and maintain stationary CI ICE and control device per manufacturer's emission-related written instructions.	Y	
60.4211(a)(2)	Change only those emission-related settings that are permitted by the manufacturer; and	Y	
60.4211(a)(3)	Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you	Y	
60.4211(b)	If you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.	Y	
60.4211(b)(1)	Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.	Y	
60.4211(f)	An emergency stationary ICE must be operated according to requirements in (f)(1) - (3) of IIII. Any operation except emergency operation, maintenance and testing, emergency demand response, and non-emergency operation for 50 hrs/yr, is prohibited.	Y	
60.4211(f)(1)	No time limit on the use of emergency stationary ICE in emergency situations.	Y	
60.4211(f)(2)	For the purposes listed in paragraphs (f)(2)(i) - (iii), the emergency stationary ICE may be operated for a maximum of 100 hrs/ calendar year.	Y	
60.4211(f)(2)(i)	Emergency stationary ICE may be operated for maintenance checks and readiness testing.	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	

Table IV – C.3.6
Source-specific Applicable Requirements

S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired,
S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4214(b)	Initial notification is not required for emergency engines.	Y	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for New Emergency Stationary RICE < 500 bhp		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(ii)	Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006	Y	
63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.		
63.6590(c)(6)	New Emergency Stationary RICE ≤ 500 bhp at a major source of HAP emissions are subject only to 40 CFR 60 Subpart IIII for compression ignition engines	Y	
BAAQMD Condition 22851			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	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)]	N	

**Table IV – C.3.7
 Source-specific Applicable Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter - General Requirements (08/01/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	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 (11/03/2021)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
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	

**Table IV – C.3.7
 Source-specific Applicable Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations (Amended May 19, 2001) - Requirements for New Diesel-Fired Emergency Standby Engines (Installed after January 1, 2005)		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	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(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Emission Standards & Hours of Operating Requirements	N	
93115.6(a)(3)(A)(1)	New stationary emergency standby diesel-fueled engines (>50 bhp) shall	N	

Table IV – C.3.7
Source-specific Applicable Requirements

S58 - Emergency Standby Generator Engine; Diesel Fired
S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(3)(A)(1)(a)	Meet the applicable emission standards for all pollutants for the same model year and maximum horsepower rating as specified in Table 1 Emission Standards for New Stationary Emergency Standby Diesel-Fueled CI Engines, in effect on the date of acquisition or submittal, as defined in section 93115.4	N	
93115.6(a)(3)(A)(1)(b)	After December 31, 2008, be certified to the new nonroad compression-ignition (CI) engine emission standards for all pollutants for 2007 and later model year engines as specified in 40 CFR, PART 60, Subpart III-Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (2006)	N	
93115.6(a)(3)(A)(1)(c)	Not operate more than 50 hours per year for maintenance and testing purposes, except as provided in 93115.6(a)(3)(A)2. This subsection does not limit engine operation for emergency use and for emission testing to show compliance with 93115.6(a)(3).	N	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM ≤ 0.01 g/bhp-hr.	N	
93115.6(a)(3)(B)	New Engines: District may establish more stringent limits and standards	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(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR 60 Subpart III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (01/24/2023)		
60.4200	Applicability	Y	

**Table IV – C.3.7
 Source-specific Applicable Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4200(a)	The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(i)	Manufactured April 1, 2006 and are not fire pump engines	Y	
60.4200(a)(4)	The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(a) (S1552 and S1599 only)	Pre-2007 model year and later emergency CI ICE with displacement less than 10 liters per cylinder that are not fire pump engines must meet emission standards in Table 1 of Subpart IIII	Y	
60.4205(b) (S58 and S1561 only)	Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.	Y	
60.4206	Meet emission standards in 60.4205 for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4208	What is the deadline for importing or installing stationary CI ICE produced in previous model years?	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4211	Compliance requirements	Y	
60.4211(a)	Owner/operator must do all of the following	Y	

**Table IV – C.3.7
 Source-specific Applicable Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(a)(1)	Operate and maintain stationary CI ICE and control device per manufacturer’s emission-related written instructions.	Y	
60.4211(a)(2)	Change only those emission-related settings that are permitted by the manufacturer; and	Y	
60.4211(a)(3)	Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you	Y	
60.4211(b) (S1552 and S1599 only)	If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.	Y	
60.4211(b)(1) (S-1552 and S1599 only)	Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.	Y	
60.4211(c) (S-58 and S-1561 only)	If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b) you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section	Y	
60.4211(f)	An emergency stationary ICE must be operated according to requirements in (f)(1) - (3) of IIII. Any operation except emergency operation, maintenance and testing, emergency demand response, and non-emergency operation for 50 hrs/yr, is prohibited.	Y	
60.4211(f)(1)	No time limit on the use of emergency stationary ICE in emergency situations.	Y	
60.4211(f)(2)	For the purposes listed in paragraphs (f)(2)(i) - (iii), the emergency stationary ICE may be operated for a maximum of 100 hrs/ calendar year.	Y	
60.4211(f)(2)(i)	Emergency stationary ICE may be operated for maintenance checks and readiness testing.	Y	

**Table IV – C.3.7
 Source-specific Applicable Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(f)(2)(ii)	Emergency stationary ICE may be operated for emergency demand response for periods	Y	
60.4211(f)(2)(iii)	Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines.	Y	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for New Emergency Stationary RICE < 500 bhp		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(ii)	Rating < 500 bhp located at major source of HAP emissions, constructed on or after 6/12/2006	Y	
63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.	Y	
63.6590(c)(6)	New Emergency Stationary RICE ≤ 500 bhp at a major source of HAP emissions are subject only to 40 CFR 60 Subpart IIII for compression ignition engines	Y	
BAAQMD Condition 23811	(S-58, S-1552, S-1561 Only)		

Table IV – C.3.7
Source-specific Applicable Requirements

S58 - Emergency Standby Generator Engine; Diesel Fired
S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Hours of operation limit for reliability-related activities [basis: "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and Section 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.4(29)	Y	
Part 3	Totalizing Meter [basis: "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.10(d)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, "Stationary Diesel Engine ATCM" CA Code of Regulations, Title 17, Section 93115.10(f)	Y	
BAAQMD Condition 22850	(S-1599 Only)		
Part 1	Hours of operation limit for reliability-related activities [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]	Y	
Part 2	Emergency use [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]	Y	
Part 3	Totalizing Meter [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]	Y	
Part 4	Recordkeeping [Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]	Y	

Table IV – C.3.8
Source-specific Applicable Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter - General Requirements (08/01/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	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 (11/03/2021)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
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	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	

Table IV – C.3.8
Source-specific Applicable Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations (Amended May 19, 2011) Requirements for New Diesel-Fired Emergency Standby Engines (Installed after January 1, 2005)		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	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(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Emission Standards & Hours of Operating Requirements	N	
93115.6(a)(3)(A)(1)	New stationary emergency standby diesel-fueled engines (>50 bhp) Shall:	N	
93115.6(a)(3)(A)(1)(a)	Meet the applicable emission standards for all pollutants for the same model year and maximum horsepower rating as specified in Table 1 Emission Standards for New Stationary Emergency Standby Diesel-Fueled CI Engines, in effect on the date of acquisition or submittal, as defined in section 93115.4	N	

Table IV – C.3.8
Source-specific Applicable Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(3)(A)(1)(b)	After December 31, 2008, be certified to the new nonroad compression-ignition (CI) engine emission standards for all pollutants for 2007 and later model year engines as specified in 40 CFR, PART 60, Subpart IIII-Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (2006)	N	
93115.6(a)(3)(A)(1)(c)	Not operate more than 50 hours per year for maintenance and testing purposes, except as provided in 93115.6(a)(3)(A)2. This subsection does not limit engine operation for emergency use and for emission testing to show compliance with 93115.6(a)(3).	N	
93115.6(a)(3)(A)(2)	Alternate Requirements – Allowed 100 hours/year maintenance and testing if Diesel PM ≤ 0.01 g/bhp-hr.	N	
93115.6(a)(3)(B)	New Engines: District may establish more stringent limits and standards	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(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (01/24/2023)		
60.4200	Applicability	Y	
60.4200(a)	The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(i)	Manufactured April 1, 2006 and are not fire pump engines	Y	
60.4200(a)(4)	Provisions of 60.4208 of this subpart are applicable to owner/operators of stationary CI ICE that commence construction after 7/11/05.	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	

Table IV – C.3.8
Source-specific Applicable Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4205(b)	2007 model year and later emergency CI ICE with displacement less than 30 liters per cylinder that are not fire pump engines must meet emission standards for new non-road CI engines in 60.4202 for all pollutants for same model year and maximum engine power	Y	
60.4206	Meet emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4208	What is the deadline for importing or installing stationary CI ICE produced in previous model years?	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4211	Compliance requirements for owners/operators	Y	
60.4211(a)	Owner/operator must do all of the following	Y	
60.4211(a)(1)	Operate and maintain stationary CI ICE and control device per manufacturer's emission-related written instructions.	Y	
60.4211(a)(2)	Change only those emission-related settings that are permitted by the manufacturer; and	Y	
60.4211(a)(3)	Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you	Y	
60.4211(c)	Owner of 2007 model year or later stationary CI ICE and must comply with 60.4205 (b), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum engine power.	Y	
60.4211(f)	An emergency stationary ICE must be operated according to requirements in (f)(1) - (3) of IIII. Any operation except emergency operation, maintenance and testing, emergency demand response, and non-emergency operation for 50 hrs/yr, is prohibited.	Y	
60.4211(f)(1)	No time limit on the use of emergency stationary ICE in emergency situations.	Y	
60.4211(f)(2)	For the purposes listed in paragraphs (f)(2)(i) - (iii), the emergency stationary ICE may be operated for a maximum of 100 hrs/ calendar year.	Y	

Table IV – C.3.8
Source-specific Applicable Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(f)(2)(i)	Emergency stationary ICE may be operated for maintenance checks and readiness testing.	Y	
60.4211(f)(2)(ii)	Emergency stationary ICE may be operated for emergency demand response for periods	Y	
60.4211(f)(2)(iii)	Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines.	Y	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for New Emergency Stationary RICE > 500 bhp		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(i)	Rating > 500 bhp located at major source of HAP emissions, constructed on or after 12/19/2002	Y	
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(1)	Stationary RICE that meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet requirements of this subpart and of subpart A except for initial notification requirements of 63.6645(f)	Y	
63.6590(b)(1)(i)	The stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii).	Y	

Table IV – C.3.8
Source-specific Applicable Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6645(f)	If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).	Y	
BAAQMD Condition 23811			
Part 1	Hours of operation limit for reliability-related activities [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and Section 93115.6(a)(3)(A)1c	Y	
Part 2	Emergency use [basis: Regulation 9-8-330, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.4(29)	Y	
Part 3	Totalizing Meter [basis: “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(d)(1)	Y	
Part 4	Recordkeeping [basis: Regulation 9-8-530, “Stationary Diesel Engine ATCM” CA Code of Regulations, Title 17, Section 93115.10(f)	Y	

**Table IV – C.3.9
 Source-specific Applicable Requirements**

**S1562 - Avon Berth 1A East Diesel Firewater Pump
 S1563 - Avon Berth 1A West Diesel 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 (08/01/2018)		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For emergency Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-303	Ringelmann Number 2 Limitation	Y	
6-303.1	For emergency Standby Engines	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 (11/03/2021)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (07/25/2007)		
9-8-110	Exemptions	N	
9-8-110.5	Exemption, Emergency Standby Engines	N	
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	
9-8-502	Recordkeeping	N	
9-8-502.1	Monthly records of usage	N	

**Table IV – C.3.9
 Source-specific Applicable Requirements**

**S1562 - Avon Berth 1A East Diesel Firewater Pump
 S1563 - Avon Berth 1A West Diesel Firewater Pump**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.2	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.3	Emergency Standby Engines, Monitoring and Recordkeeping	N	
CARB ATCM	Stationary Diesel Engine ATCM Section 93115, Title 17, CA Code of Regulations (Amended May 19, 2011) - Requirements for New Diesel-Fired Emergency Standby Engines (Installed after January 1, 2005)		
93115.1	Purpose	N	
93115.2	Applicability	N	
93115.4	Definitions	N	
93115.4(50)	New or New CI Engine – installed after January 1, 2005 or a 2004 or 2005 model year engine purchased prior to January 1, 2005 for use in California or reconstructed after January 1, 2005	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(a)	Fuel and Fuel Additive Requirements: New stationary compression ignition engine requirements	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)	New Emergency Standby Diesel-Fueled Compression Engine (> 50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(4)	New Direct-Drive Emergency Standby Fire Pump Engines – comply with 93115.6(a)(4)	N	
93115.6(a)(4)(A)	New Direct-Drive Emergency Standby Fire Pump Engines: Standards & Hours of Operation	N	
93115.6(a)(4)(A)(1)	New Direct-Drive Emergency Standby Fire Pump Engines: General Requirements	N	
93115.6(a)(4)(A)(1)(a)	Meet the applicable emissions standards for all pollutants as specified in Table 2 Emissions Standards for New Stationary Emergency Standby Direct-Drive Fire Pump Engines for the model year and NFPA nameplate power rating	N	
93115.6(a)(4)(A)(1)(b)	Meet new fire pump engine certification requirements and emissions standards required by 40 CFR 60.4202(d) Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (2006)	N	

Table IV – C.3.9
Source-specific Applicable Requirements

S1562 - Avon Berth 1A East Diesel Firewater Pump
S1563 - Avon Berth 1A West Diesel Firewater Pump

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.6(a)(4)(A)(1)(c)	Hours of operation limited to hours necessary to comply with testing requirements of NFPA 25. No limit for emergency and emission testing for compliance with this regulation	N	
93115.6(a)(4)(B)	New Direct-Drive Emergency Standby Fire Pump Engines: District may establish more stringent limits and standards	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(d)(3)	District may require additional monitoring	N	
93115.10(f)	Reporting Requirements for Emergency Standby Engines	N	
93115.15	Severability	N	
40 CFR 60 Subpart III	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (01/24/2023)		
60.4200	Applicability	Y	
60.4200(a)	Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(ii)	Manufactured as a certified NFPA fire pump engine after 7/1/2006	Y	
60.4200(a)(4)	The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005	Y	
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(c)	Fire pump engines with displacement less than 30 l per cylinder must meet emission standards in Table 4 for all pollutants	Y	
60.4206	Meet Table 4 emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	

Table IV – C.3.9
Source-specific Applicable Requirements

S1562 - Avon Berth 1A East Diesel Firewater Pump
S1563 - Avon Berth 1A West Diesel Firewater Pump

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer’s written instructions.	Y	
60.4211(a)(1)	Operate and maintain stationary CI ICE and control device per manufacturer’s emission-related written instructions.	Y	
60.4211(a)(2)	Change only those emission-related settings that are permitted by the manufacturer; and	Y	
60.4211(a)(3)	Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you	Y	
60.4211(f)	An emergency stationary ICE must be operated according to requirements in (f)(1) - (3) of IIII. Any operation except emergency operation, maintenance and testing, emergency demand response, and non-emergency operation for 50 hrs/yr, is prohibited.	Y	
60.4211(f)(1)	No time limit on the use of emergency stationary ICE in emergency situations.	Y	
60.4211(f)(2)	For the purposes listed in paragraphs (f)(2)(i) - (iii), the emergency stationary ICE may be operated for a maximum of 100 hrs/ calendar year.	Y	
60.4211(f)(2)(i)	Emergency stationary ICE may be operated for maintenance checks and readiness testing.	Y	
60.4214	Notification, reporting, and recordkeeping requirements for stationary CI ICE	Y	
60.4214(b)	Initial notification is not required for emergency engines.	Y	
40 CFR 63 Subpart ZZZZ	NESHAPS for Stationary Reciprocating Internal Combustion Engines (08/10/2022) Requirements for New Emergency Stationary RICE > 500 bhp		
63.6585	Applicability stationary RICE at a major or area source of HAP emissions	Y	
63.6585(a)	Definition: stationary RICE	Y	
63.6585(b)	Definition: major source of HAPs	Y	
63.6590	Affected sources	Y	
63.6590(a)	Affected source is any existing, new, or reconstructed stationary RICE located at major source of HAP emissions	Y	
63.6590(a)(2)	A New stationary RICE is:	Y	
63.6590(a)(2)(i)	Rating more than 500 bhp located at major source of HAP emissions, constructed on or after December 19, 2002	Y	

Table IV – C.3.9
Source-specific Applicable Requirements

S1562 - Avon Berth 1A East Diesel Firewater Pump
S1563 - Avon Berth 1A West Diesel Firewater Pump

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6590(b)	Stationary RICE subject to limited requirements	Y	
63.6590(b)(1)	Stationary RICE that meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet requirements of this subpart and of subpart A except for initial notification requirements of 63.6645(f)	Y	
63.6590(b)(1)(i)	The stationary RICE is a new emergency RICE with a site rating of more than 500 bhp located at a major source of HAP emissions that does not operate or is not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii).	Y	
BAAQMD Condition 22851			
Part 1	Hours of operation limit for NFPA 25 reliability-related activities [basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.3(n)]	N	
Part 2	Allowable use [basis: BAAQMD Regulation 9-8-330]	N	
Part 3	Totalizing Meter [Basis: BAAQMD Regulation 9-8-530, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(d)(1)]	N	
Part 4	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)]	N	

Section C.4 Combustion - Process Heaters and Furnaces

**Table IV – C.4.1
 Source-specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV – C.4.2
 Source-specific Applicable Requirements**

S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace, NSPS Subpart J by Consent Decree Condition 23562

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) Applies to all sources		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	

Table IV – C.4.2
Source-specific Applicable Requirements

S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace, NSPS Subpart J by Consent Decree Condition 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Excesses	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	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 (11/03/2021)		
9-10-113	Limited Exemption, Alternate NOx Compliance Plan	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-308	Alternate NOx Compliance Plan, Daily Mass Emissions limit for Facility	N	

Table IV – C.4.2
Source-specific Applicable Requirements

S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace, NSPS Subpart J by Consent Decree Condition 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.1.1	NOx CEMS for no less than 95% of NOx emission, by weight	N	
9-10-502.1.2	NOx parametric monitoring – emission estimates based on one or two emission factors based on District approved source tests	N	
9-10-502.1.2.1	Annual source test (S-928, S-929, S-930, S-931, S-932, S-933)	N	
9-10-502.1.2.2	Semiannual source test (S-915)	N	
9-10-502.2	Fuel flowmeters	N	
9-10-504	Recordkeeping	N	
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, or 305, or effective 7/17/2007, 9-10-303	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, and/or 306	N	

**Table IV – C.4.2
 Source-specific Applicable Requirements**

**S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace,
 S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace,
 S937 - No. 1 Hydrogen Plant Furnace,
 NSPS Subpart J by Consent Decree Condition 23562**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505.1	Reporting Requirements, Violations	N	
9-10-505.2	Reporting Requirements, Quarterly Reports	N	
9-10-505.2.1	Reporting Requirements, CEMS or Parametric Monitor Data	N	
9-10-505.2.2	Reporting Requirements, Exceedences	N	
9-10-505.3	Permit Application for Amendments to Alternate NOx Compliance Plan Pursuant to 9-10-308.4	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
SIP Regulation 9 Rule 10	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/2/2008)		
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	Y	
9-10-502.2	Monitoring (fuel flow meter)	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) Applicability specified in Condition 23562		
10-14	Subpart J – Standards of Performance for Petroleum Refineries	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982; Approved by EPA on 5/3/1984)	Y	
40 CFR 60 Subpart J	NSPS – Standards of Performance for Petroleum Refineries (12/01/2015) Applicability specified in Condition 23562		
60.104	Standards for sulfur oxides	Y	

Table IV – C.4.2
Source-specific Applicable Requirements

S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace, NSPS Subpart J by Consent Decree Condition 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	Limit on hydrogen sulfide content in fuel gas burned in fuel gas combustion devices	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)	Continuous monitoring system requirements	Y	
60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(a)(4)(i)	Span value for H2S monitoring is 425 mg/dscm H2S	Y	
60.105(a)(4)(ii)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location	Y	
60.105(a)(4)(iii)	Use Performance Specification 7 for performance evaluations and Method 11, 15, 15A, or 16 for relative accuracy evaluations	Y	
60.105(e)	Periods of excess emissions for 60.7(c)	Y	
60.105(e)(3)	Excess emissions of sulfur dioxide from fuel gas combustion	Y	
60.105(e)(3)(ii)	excess H2S in fuel gas as measured under 60.105(a)(4)	Y	
60.106	Test Methods and Procedures	Y	
60.106(a)	Performance test requirements	Y	
60.106(e)(1)	Compliance determination for H2S standards for fuel gas combustion devices	Y	
60.107	Reporting and recordkeeping requirements	Y	
60.107(f)	Semiannual reporting	Y	
60.107(g)	Certification of semiannual report	Y	
40 CFR 60 Appendix B	NSPS Title 40 Part 60 Appendix B – Performance Specifications		
Performance Specification 2	NOx Continuous Emission Monitoring Systems (06/13/2007)	Y	
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources (2/27/2014)	Y	
40 CFR 60 Appendix F	NSPS – Title 40 Part 60 Appendix F – Quality Assurance Procedures (03/26/2013) Applicability specified in Condition 23562		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

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Source-specific Applicable Requirements

S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace, NSPS Subpart J by Consent Decree Condition 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (12/28/2020)	Y	
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed or existing industrial boiler or process heater	Y	
63.7490(a)(1)	Affected sources is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters	Y	
63.7490(a)(2)	The affected source is each new or reconstructed source at a major source;	Y	
63.7490(b)	A boiler or process heater is new if construction commences after June 4, 2010 and meets the applicability criteria for construction	Y	
63.7490(c)	A boiler or process heater is reconstructed if reconstruction commences after June 4, 2010 and meets the applicability criteria for reconstruction	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7491	Boilers or process heaters not subject to this subpart	Y	
63.7495(a)	Comply with the requirements for new or reconstructed boilers and process heaters upon startup	Y	
63.7495(b)	Existing boilers and process heaters must comply with this subpart no later than January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7495(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7499	Subcategories of boilers and process heaters	Y	
63.7499(l)	Subcategories: 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) through (3) except as provided in (b) through (e), at all times, except as provided in (f).	Y	

**Table IV – C.4.2
 Source-specific Applicable Requirements**

S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace, NSPS Subpart J by Consent Decree Condition 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500(a)(1)	Meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 to this subpart that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under §63.7522.	Y	
63.7500(a)(2)	Comply with each operating limit in Table 4 that applies to the affected source.	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(b)	EPA may approve use of an alternative work practice standard	Y	
63.7500(e)	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to this subpart.	Y	
63.7500(f)	These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Items 5 and 6 of Table 3 to this subpart.	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These limits apply to you at all times the affected unit is operating except for the periods noted in §63.7500(f).	Y	
63.7505(c)	Demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or continuous monitoring systems (CMS), including a continuous emission monitoring system (CEMS), or particulate matter continuous parameter monitoring system (PM CPMS), where applicable	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7505(d)	If you demonstrate compliance with any applicable emission limit through performance testing and subsequent compliance with operating limits through the use of CPMS, or with a CEMS or COMS, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section for the use of any CEMS, COMS, or CPMS. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).	Y	
63.7510	Initial compliance requirements and dates	Y	
63.7510(e)	For existing affected sources (as defined in §63.7490), you must complete the initial compliance demonstration, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the compliance date that is specified for your source in §63.7495 and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart, except as specified in paragraph (j) of this section. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in §63.7495..	Y	
63.7510(j)	For existing affected sources (as defined in §63.7490) that have not operated between the effective date of the rule and the compliance date that is specified for your source in §63.7495, you must complete the initial compliance demonstration, if subject to the emission limits in Table 2 to this subpart, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than 30 days after the re-start of the affected source and, if applicable, complete the one-time energy assessment specified in Table 3 to this subpart, no later than the compliance date specified in §63.7495.	Y	
63.7515	Subsequent performance tests, fuel analyses, and tune-up requirements	Y	

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 S937 - No. 1 Hydrogen Plant Furnace,
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7515(d)	If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.	Y	
63.7521(f)	To demonstrate that a gaseous fuel other than natural gas or refinery gas qualifies as an other gas 1 fuel, as defined in § 63.7575, you must conduct a fuel specification analyses for mercury according to the procedures in paragraphs (g) through (i) of this section and Table 6 to this subpart, as applicable, except as specified in paragraph (f)(1) through (4) of this section, or as an alternative where fuel specification analysis is not practical, you must measure mercury concentration in the exhaust gas when firing only the gaseous fuel to be demonstrated as an other gas 1 fuel in the boiler or process heater according to the procedures in Table 6 to this subpart.	Y	
63.7540	Continuous compliance demonstration requirements for emission limits, fuel specifications, and work practice standards	Y	
63.7540(a)	Demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to this subpart, the work practice standards in Table 3 to this subpart, and the operating limits in Table 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (19) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of this section. This frequency does not apply to limited-use boilers and process heaters, as defined in §63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.	Y	
63.7540(a)(10)(i)	As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;	Y	
63.7540(a)(10)(ii)	Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;	Y	
63.7540(a)(10)(iii)	Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;	Y	
63.7540(a)(10)(iv)	Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject;	Y	
63.7540(a)(10)(v)	Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and	Y	
63.7540(a)(10)(vi)	Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(vi)(A)	The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;	Y	
63.7540(a)(10)(vi)(B)	A description of any corrective actions taken as a part of the tune-up; and	Y	
63.7540(a)(10)(vi)(C)	The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.	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	
63.7540(d)	For startup and shutdown, meet the work practice standards according to Items 5 and 6 of Table 3	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	You must submit to the Administrator all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.	Y	
63.7545(b)	As specified in §63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013.	Y	
63.7545(c)	For new or reconstructed sources, submit an Initial Notification no later than 15 days after the actual startup date	Y	
63.7540(d)	For required performance test you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)	If you are required to conduct an initial compliance demonstration as specified in §63.7530, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), as applicable. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) of this section and must be submitted within 60 days of the compliance date specified at §63.7495(b).	Y	
63.7545(e)(1)	A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.	Y	
63.7545(e)(6)	For process heaters or boilers, a signed certification of compliance with all applicable emission limits and work practice standards	Y	
63.7545(e)(7)	For process heaters or boilers, a description of any deviation from any work practice standard or operating limit	Y	
63.7545(e)(8)	In addition to the information required in §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, 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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(8)(ii)	“This facility has had an energy assessment performed according to §63.7530(e).”	Y	
63.7550	Reporting Requirements	Y	
63.7550(a)	You must submit each report in Table 9 to this subpart that applies to you.	Y	
63.7550(b)	Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.	Y	
63.7550(b)(1)	The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for your source in §63.7495.	Y	
63.7550(b)(2)	The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.	Y	
63.7550(b)(3)	Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.	Y	

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63.7550(b)(4)	Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.	Y	
63.7550(c)	A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.	Y	
63.7550(c)(1)	If the facility is subject to a the requirements of a tune up they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv) and (xiv) of this section.	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process unit information, emissions limitations, and operating parameter limitations	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(iv)	The total operating time during the reporting period.	Y	
63.7550(c)(5)(xi)	If there are no deviations from any emission limits or operating limits in this subpart that apply to you, a statement that there were no deviations from the emission limits or operating limits during the reporting period.	Y	
63.7550(c)(5)(xiv)	Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period 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 content of the report.	Y	
63.7550(c)(5)(xviii)	For each instance of startup or shutdown include the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).	Y	

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63.7550(h)(3)	You must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in §63.13. At the discretion of the Administrator, you must also submit these reports, to the Administrator in the format specified by the Administrator.	Y	
63.7555	Recordkeeping Requirements	Y	
63.7555(a)	You must keep records according to paragraphs (a)(1) and (2) of this section.	Y	
63.7555(a)(1)	A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Y	
63.7555(a)(2)	Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).	Y	
63.7555(d)	Records to demonstrate compliance with applicable emission limits for process heaters or boilers	Y	
63.7555(g)	Maintain records of testing for “other gas 1” fuel	Y	
63.7560	Record Retention Requirements	Y	
63.7560(a)	Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Y	
63.7560(b)	As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.7560(c)	You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7565	Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.	Y	
63.7575	Subpart DDDDD Definitions	Y	
BAAQMD Condition 677	For S937 Only		
Part 1	NOx emissions, calculated as NO2, must not exceed 1,430 lb/stream day or 1,089 lb/calendar day (Basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)	Y	
Part 2	NOx/O2 CEM requirement (Basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)	Y	
BAAQMD Condition 8077			
Part B4	Monitoring	Y	
Part B4B	Monitoring – NOx/O2 CEM (Basis: cumulative increase, offsets) (S-934 and S-935 only)	Y	
Part B4C	Monitoring – Fuel Usage (Basis: cumulative increase, offsets)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets) (All except for S-926)	Y	
Part B7A	NOx, CO emission limits (Basis: cumulative increase, offsets, BACT) (S-934 and S-935 only)	Y	
Part B7D	NOx Source Tests Requirements (Basis: cumulative increase, offsets)	Y	
Part C3	Firing rate limits for S-928 through S-933 (Basis: cumulative increase)	Y	
Part C4	Firing rate limits for S-934 and S-935 (Basis: cumulative increase)	Y	
BAAQMD Condition 13605	(S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937 Only)		
Part 4	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
BAAQMD Condition 16685			
Part 1	Daily Firing rate limitations (Basis: cumulative increase, Regulation 2-1-403)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 18372			
Part 2	Natural Gas or Refinery Fuel Gas only (Basis: Regulation 9, Rule 10) (S-920, S-926)	Y	
Part 27	Sources subject to the facility-wide daily NOx mass emission limit (Part 37) and the CO concentration limit in Regulation 9-10 (Basis: Regulation 9-10-303, 305, & 308)	Y	
Part 28	O2 monitor and record requirement (Basis: Regulation 9-10-502) (All except S-928, S-929, S-930, S-931, S-932, S-933 because they are < 25 mmBtu/hr)	Y	
Part 34	CO source test (Basis: Regulation 9-10-305, 9-10-502, 1-522)	Y	
Part 35	CO results requires CEM (Basis: Regulation 9-10-502, 1-522) (All except for S-928, S-929, S-930, S-931, S-932, S-933 because they are < 25 mmBtu/hr)	Y	
Part 36	Source test records (Basis: recordkeeping; Regulation 9-10-504)	Y	
Part 37	Refinery-wide daily mass NOx emission limit and use of ANCP (Basis: Regulation 9-10-308)	Y	
Part 38	NOx Emission Calculations (Basis: Regulation 9-10-308)	Y	
Part 39	Quarterly Reports of ANCP Activity (Basis: Regulation 9-10-505.2)	Y	
BAAQMD Condition 20099	(S920, S928, S929, S930, S931, S932, S933, S934, S937 Only)		
Part 6	100 # fuel gas system destruction efficiency source test of S-532 oil-water separator tank every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
BAAQMD Condition 21053	(S920, S928, S929, S930, S931, S932, S933, S934, S937 Only)		
Part 7	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal	Y	
BAAQMD Condition 21100	(S920, S928, S929, S930, S931, S932, S933, S934, S937 Only)		

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Part 4	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
BAAQMD Condition 21849	(S920, S928, S929, S930, S931, S932, S933, S934, S937 Only)		
Part 11.d	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Regulation 8-33-301, Regulation 1-238,BACT)	Y	
BAAQMD Condition 23562			
Part 1	NSPS J applicability and SSM requirements for fuel gas combustion devices. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, and 122.)	Y	
Part 2	Exemption from NSPS A and J notification requirements. (Basis: EPA Consent Decree paragraph 120.)	Y	
Part 3	Use CEMS or approved AMP to demonstrate compliance with NSPS Subpart J emission limit. (Basis: EPA Consent Decree paragraph 121.)	Y	
Part 4	CEMS accuracy test requirements. (Basis: EPA Consent Decree paragraph 121.)	Y	
BAAQMD Condition 27583			
Part 8	Demonstrate that fuel gas qualifies as an “other gas 1 fuel” (Basis: 40 CFR 63, Subpart DDDDD)	Y	
BAAQMD Condition 27604			
Part 1	Sources shall not burn any fuel gas having Total Sulfur > 162 ppm. (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)	Y	
Part 2	Test for Total Sulfur weekly. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	Conduct initial source testing for TAC (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)	Y	

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 NSPS Subpart J by Consent Decree Condition 23562

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5	Conduct initial source testing for POC destruction efficiency (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-2-302 Offsets)	Y	

Table IV – C.4.3
Source-specific Applicable Requirements
S919 - No. 19 Furnace, S973 - No. 55 Furnace

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)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	emission limit exceedance reporting requirements	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	

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Source-specific Applicable Requirements

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	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 Refineries (11/03/2021)		
9-10-113	Limited Exemption, Alternate NOx Compliance Plan	N	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	N	
9-10-308	Alternate NOx Compliance Plan, Daily Mass Emissions limit for Facility	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, and 305	N	
9-10-502.1	CEMS for NOx, CO, and O2	N	
9-10-502.1.1	CEMS Installation on 95% of NOx emissions, by Weight	N	
9-10-502.2	Fuel flowmeters	N	
9-10-503	Modified Maximum Heat Input	Y	
9-10-504	Recordkeeping	N	

**Table IV – C.4.3
 Source-specific Applicable Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-504.1	Recordkeeping for sources subject to 9-10-301, 304, 305, 308 or effective 7/17/2007, 9-10-303	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, and/or 308	N	
9-10-505.1	Reporting Requirements, Violations	N	
9-10-505.2	Reporting Requirements, Quarterly Reports	N	
9-10-505.2.1	Reporting Requirements, CEMS or Parametric Monitor Data	N	
9-10-505.2.2	Reporting Requirements, Exceedences	N	
9-10-505.3	Permit Application for Amendments to Alternate NOx Compliance Plan Pursuant to 9-10-308.4	N	
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
9-10-604	Determination of Higher Heating Value	Y	
SIP Regulation 9 Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (04/2/2008)		
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	Y	
9-10-502.2	Monitoring (fuel flow meter)	Y	
9-10-504.1	Recordkeeping for sources subject to 9-10-303	Y	
9-10-505	Reporting requirements for sources subject to 9-10-303 and/or 306	Y	

**Table IV – C.4.3
 Source-specific Applicable Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-601	Determination of Nitrogen Oxides	Y	
9-10-603	Compliance Determination	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982; Approved by EPA on 5/3/1984)	Y	
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (10/06/2022)	Y	
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed or existing industrial boiler or process heater	Y	
63.7490(a)(1)	Affected sources is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters	Y	
63.7490(a)(2)	The affected source is each new or reconstructed source at a major source;	Y	
63.7490(b)	A boiler or process heater is new if construction commences after June 4, 2010 and meets the applicability criteria for construction	Y	
63.7490(c)	A boiler or process heater is reconstructed if reconstruction commences after June 4, 2010 and meets the applicability criteria for reconstruction	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7491	Boilers or process heaters not subject to this subpart	Y	
63.7495(a)	Comply with the requirements for new or reconstructed boilers and process heaters upon startup	Y	
63.7495(b)	Existing boilers and process heaters must comply with this subpart no later than January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7495(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7499	Subcategories of boilers and process heaters	Y	
63.7499(l)	Subcategories: 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) through (3) except as provided in (b) through (e), at all times, except as provided in (f).	Y	

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Source-specific Applicable Requirements

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500(a)(1)	Meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 to this subpart that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under §63.7522.	Y	
63.7500(a)(2)	Comply with each operating limit in Table 4 that applies to the affected source.	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(b)	EPA may approve use of an alternative work practice standard	Y	
63.7500(e)	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to this subpart.	Y	
63.7500(f)	These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Items 5 and 6 of Table 3 to this subpart.	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These limits apply to you at all times the affected unit is operating except for the periods noted in §63.7500(f).	Y	
63.7505(c)	Demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or continuous monitoring systems (CMS), including a continuous emission monitoring system (CEMS), or particulate matter continuous parameter monitoring system (PM CPMS), where applicable	Y	

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 Source-specific Applicable Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7505(d)	If you demonstrate compliance with any applicable emission limit through performance testing and subsequent compliance with operating limits through the use of CPMS, or with a CEMS or COMS, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section for the use of any CEMS, COMS, or CPMS. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).	Y	
63.7510	Initial compliance requirements and dates	Y	
63.7510(e)	For existing affected sources (as defined in §63.7490), you must complete the initial compliance demonstration, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the compliance date that is specified for your source in §63.7495 and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart, except as specified in paragraph (j) of this section. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in §63.7495.	Y	
63.7510(j)	For existing affected sources (as defined in §63.7490) that have not operated between the effective date of the rule and the compliance date that is specified for your source in §63.7495, you must complete the initial compliance demonstration, if subject to the emission limits in Table 2 to this subpart, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than 30 days after the re-start of the affected source and, if applicable, complete the one-time energy assessment specified in Table 3 to this subpart, no later than the compliance date specified in §63.7495.	Y	
63.7515	Subsequent performance tests, fuel analyses, and tune-up requirements	Y	

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 Source-specific Applicable Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7515(d)	If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.	Y	
63.7521(f)	To demonstrate that a gaseous fuel other than natural gas or refinery gas qualifies as an other gas 1 fuel, as defined in § 63.7575, you must conduct a fuel specification analyses for mercury according to the procedures in paragraphs (g) through (i) of this section and Table 6 to this subpart, as applicable, except as specified in paragraph (f)(1) through (4) of this section, or as an alternative where fuel specification analysis is not practical, you must measure mercury concentration in the exhaust gas when firing only the gaseous fuel to be demonstrated as an other gas 1 fuel in the boiler or process heater according to the procedures in Table 6 to this subpart.	Y	
63.7540	Continuous compliance demonstration requirements for emission limits, fuel specifications, and work practice standards	Y	
63.7540(a)	Demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to this subpart, the work practice standards in Table 3 to this subpart, and the operating limits in Table 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (19) of this section.	Y	
63.7540(a)(10)	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of this section. This frequency does not apply to limited-use boilers and process heaters, as defined in §63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.	Y	

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 Source-specific Applicable Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(i)	As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;	Y	
63.7540(a)(10)(ii)	Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;	Y	
63.7540(a)(10)(iii)	Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;	Y	
63.7540(a)(10)(iv)	Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject;	Y	
63.7540(a)(10)(v)	Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and	Y	
63.7540(a)(10)(vi)	Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,	Y	
63.7540(a)(10)(vi)(A)	The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;	Y	
63.7540(a)(10)(vi)(B)	A description of any corrective actions taken as a part of the tune-up; and	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(vi)(C)	The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.	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	
63.7540(d)	For startup and shutdown, meet the work practice standards according to Items 5 and 6 of Table 3	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	You must submit to the Administrator all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.	Y	
63.7545(b)	As specified in §63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013.	Y	
63.7545(e)	If you are required to conduct an initial compliance demonstration as specified in §63.7530, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), as applicable. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) of this section and must be submitted within 60 days of the compliance date specified at §63.7495(b).	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
63.7545(e)(1)	A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.	Y	
63.7545(e)(6)	For process heaters or boilers, a signed certification of compliance with all applicable emission limits and work practice standards	Y	
63.7545(e)(7)	For process heaters or boilers, a description of any deviation from any work practice standard or operating limit	Y	
63.7545(e)(8)	In addition to the information required in §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, 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	Reporting Requirements	Y	
63.7550(a)	You must submit each report in Table 9 to this subpart that applies to you.	Y	
63.7550(b)	Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)(1)	The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for your source in §63.7495.	Y	
63.7550(b)(2)	The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.	Y	
63.7550(b)(3)	Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.	Y	
63.7550(b)(4)	Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.	Y	
63.7550(c)	A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.	Y	
63.7550(c)(1)	If the facility is subject to a the requirements of a tune up they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv) and (xiv) of this section.	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process unit information, emissions limitations, and operating parameter limitations	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(iv)	The total operating time during the reporting period.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(xi)	If there are no deviations from any emission limits or operating limits in this subpart that apply to you, a statement that there were no deviations from the emission limits or operating limits during the reporting period.	Y	
63.7550(c)(5)(xiv)	Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period 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 content of the report.	Y	
63.7550(c)(5)(xviii)	For each instance of startup or shutdown include the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).	Y	
63.7550(h)(3)	You must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in §63.13. At the discretion of the Administrator, you must also submit these reports, to the Administrator in the format specified by the Administrator.	Y	
63.7555	Recordkeeping Requirements	Y	
63.7555(a)	You must keep records according to paragraphs (a)(1) and (2) of this section.	Y	
63.7555(a)(1)	A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Y	
63.7555(a)(2)	Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).	Y	
63.7555(d)	Records to demonstrate compliance with applicable emission limits for process heaters or boilers	Y	
63.7555(g)	Maintain records of testing for "other gas 1" fuel	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7560	Record Retention Requirements	Y	
63.7560(a)	Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Y	
63.7560(b)	As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.7560(c)	You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.	Y	
63.7565	Table 10 to this subpart shows which parts of the General Provisions in §63.1 through 63.15 apply to you.	Y	
63.7575	Subpart DDDDD Definitions	Y	
BAAQMD Condition 8077	Listed conditions apply to sources noted		
Part A2A (S973)	S-973 Start-Up and Shutdown Time and NOx Emission Limits (Basis: cumulative increase, offsets)	Y	
Part A2B (S973)	Ammonia Injection Requirement at A-31 SCR abating S-973	Y	
Part B4	Monitoring	Y	
Part B4A	H2S CEMS requirements for fuel gas supply for S973 (Basis: NSPS)	Y	
Part B4B	Monitoring – NOx/O2 CEM (Basis: cumulative increase, offsets) (S-973 only)	Y	
Part B4D	Monitoring per Table D of Appendix to this permit condition (cumulative increase, offsets)	Y	
Part B7A	NOx emission limits (Basis: cumulative increase, offsets, BACT)	Y	
Part B7B	Maximum firing rate (Basis: cumulative increase, offsets) (S-973 only)	Y	
BAAQMD Condition 13605			
Part 4	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	

Table IV – C.4.3
Source-specific Applicable Requirements
S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 16685			
Part 1	Daily Firing rate limitations (Basis: cumulative increase, Regulation 2-1-403)	Y	
BAAQMD Condition 18372			
Part 2	Natural Gas or Fuel Gas only (Regulation 9-10)	Y	
Part 27	Sources subject to the facility-wide daily NOx mass emission limit (Part 37) and the CO concentration limit in Regulation 9-10 (Basis: Regulation 9-10-303, 305, & 308)	Y	
Part 28	O2 monitor and recorder requirement (Basis: Regulation 9-10-502)	Y	
Part 34	CO source test (Basis: Regulation 9-10-305, 9-10-502, 1-522)	Y	
Part 35	CO results requires CEM (Basis: Regulation 9-10-502, 1-522)	Y	
Part 36	Source test records (Basis: recordkeeping; Regulation 9-10-504)	Y	
Part 37	Refinery-wide daily mass NOx emission limit and use of ANCP (Basis: Regulation 9-10-308)	Y	
Part 38	NOx Emission Calculations (Basis: Regulation 9-10-308)	Y	
Part 39	Quarterly Reports of ANCP Activity (Basis: Regulation 9-10-505.2)	Y	
BAAQMD Condition 20099			
Part 6	100 # fuel gas system destruction efficiency source test of S-532 oil-water separator tank every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
BAAQMD Condition 21053			
Part 7	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal	Y	
BAAQMD Condition 27583			
Part 8	Demonstrate that fuel gas qualifies as an “other gas 1 fuel” (Basis: 40 CFR 63, Subpart DDDDD)	Y	
BAAQMD Condition 27604			

**Table IV – C.4.3
Source-specific Applicable Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Sources shall not burn any fuel gas having Total Sulfur > 162 ppm. (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)	Y	
Part 2	Test for Total Sulfur weekly. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	Conduct initial source testing for TAC (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)	Y	
Part 5	Conduct initial source testing for POC destruction efficiency (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-2-302 Offsets)	Y	

Table IV – C.4.4
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – C.4.5
Source-specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – C.4.6
Source-specific Applicable Requirements

S1106 - No. 72 Furnace
Not Subject to Regulation 9, Rule 10

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)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of plans and specifications	Y	
1-522.2	Scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	Reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	Emission limit exceedance reporting requirements	N	
1-522.8	Monitoring data submittal requirements	Y	
1-522.9	Recordkeeping requirements	Y	
1-522.10	Monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission limit exceedance reporting requirements	Y	
1-523	Report exceedances	Y	
1-523.3	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann No. 1 Limitation	Y	
6-1-305	Visible Particles	Y	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	Y	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	Y	
6-1-601	Applicability of Test Methods	Y	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982)	N	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60 Appendix B	NSPS - Title 40 Part 60 Appendix B – Performance Specifications (10/17/2000) Applicable only when sources are firing refinery fuel gas		
Performance Specification 7	Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources	Y	
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (10/06/2022)	Y	
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed or existing industrial boiler or process heater	Y	
63.7490(a)(1)	Affected sources is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters	Y	
63.7490(a)(2)	The affected source is each new or reconstructed source at a major source;	Y	
63.7490(b)	A boiler or process heater is new if construction commences after June 4, 2010 and meets the applicability criteria for construction	Y	
63.7490(c)	A boiler or process heater is reconstructed if reconstruction commences after June 4, 2010 and meets the applicability criteria for reconstruction	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7491	Boilers or process heaters not subject to this subpart	Y	
63.7495(a)	Comply with the requirements for new or reconstructed boilers and process heaters upon startup	Y	
63.7495(b)	Existing boilers and process heaters must comply with this subpart no later than January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7495(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7499	Subcategories of boilers and process heaters	Y	
63.7499(l)	Subcategories: units designed to burn gas 1 fuels	Y	
63.7499(p)	Subcategories: units designed to burn solid fuel (coke fines)	Y	
63.7499(q)	Subcategories: units designed to burn liquid fuel (torch oil)	Y	
63.7500	Emission limitations, work practice standards, and operating limits	Y	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500(a)	Meet the requirements in paragraphs (a)(1) through (3) except as provided in (b) through (e), at all times, except as provided in (f).	Y	
63.7500(a)(1)	Meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 to this subpart that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under §63.7522.	Y	
63.7500(a)(2)	Comply with each operating limit in Table 4 that applies to the affected source.	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(b)	EPA may approve use of an alternative work practice standard	Y	
63.7500(e)	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to this subpart.	Y	
63.7500(f)	These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Items 5 and 6 of Table 3 to this subpart.	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These limits apply to you at all times the affected unit is operating except for the periods noted in §63.7500(f).	Y	
63.7505(c)	Demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or continuous monitoring systems (CMS), including a continuous emission monitoring system (CEMS), or particulate matter continuous parameter monitoring system (PM CPMS), where applicable	Y	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7505(d)	If you demonstrate compliance with any applicable emission limit through performance testing and subsequent compliance with operating limits through the use of CPMS, or with a CEMS or COMS, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section for the use of any CEMS, COMS, or CPMS. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).	Y	
63.7510	Initial compliance requirements and dates	Y	
63.7510(e)	For existing affected sources (as defined in §63.7490), you must complete the initial compliance demonstration, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the compliance date that is specified for your source in §63.7495 and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart, except as specified in paragraph (j) of this section. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in §63.7495..	Y	
63.7510(j)	For existing affected sources (as defined in §63.7490) that have not operated between the effective date of the rule and the compliance date that is specified for your source in §63.7495, you must complete the initial compliance demonstration, if subject to the emission limits in Table 2 to this subpart, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than 30 days after the re-start of the affected source and, if applicable, complete the one-time energy assessment specified in Table 3 to this subpart, no later than the compliance date specified in §63.7495.	Y	
63.7515	Subsequent performance tests, fuel analyses, and tune-up requirements	Y	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7515(d)	If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.	Y	
63.7540	Continuous compliance demonstration requirements for emission limits, fuel specifications, and work practice standards	Y	
63.7540(a)	Demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to this subpart, the work practice standards in Table 3 to this subpart, and the operating limits in Table 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (19) of this section.	Y	
63.7540(a)(10)	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of this section. This frequency does not apply to limited-use boilers and process heaters, as defined in §63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.	Y	
63.7540(a)(10)(i)	As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;	Y	
63.7540(a)(10)(ii)	Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;	Y	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;	Y	
63.7540(a)(10)(i)	Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject;	Y	
63.7540(a)(10)(v)	Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and	Y	
63.7540(a)(10)(vi)	Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,	Y	
63.7540(a)(10)(vi)(A)	The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;	Y	
63.7540(a)(10)(vi)(B)	A description of any corrective actions taken as a part of the tune-up; and	Y	
63.7540(a)(10)(vi)(C)	The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.	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	
63.7540(d)	For startup and shutdown, meet the work practice standards according to Items 5 and 6 of Table 3	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	You must submit to the Administrator all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.	Y	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(b)	As specified in §63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013.	Y	
63.7545(e)	If you are required to conduct an initial compliance demonstration as specified in §63.7530, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), as applicable. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) of this section and must be submitted within 60 days of the compliance date specified at §63.7495(b).	Y	
63.7545(e)(1)	A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.	Y	
63.7545(e)(6)	For process heaters or boilers, a signed certification of compliance with all applicable emission limits and work practice standards	Y	
63.7545(e)(7)	For process heaters or boilers, a description of any deviation from any work practice standard or operating limit	Y	
63.7545(e)(8)	In addition to the information required in §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, 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	

**Table IV – C.4.6
 Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
 Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(8)(ii)	"This facility has had an energy assessment performed according to §63.7530(e)."	Y	
63.7550	Reporting Requirements	Y	
63.7550(a)	You must submit each report in Table 9 to this subpart that applies to you.	Y	
63.7550(b)	Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.	Y	
63.7550(b)(1)	The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for your source in §63.7495.	Y	
63.7550(b)(2)	The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.	Y	
63.7550(b)(3)	Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.	Y	
63.7550(b)(4)	Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.	Y	

Table IV – C.4.6
Source-specific Applicable Requirements

S1106 - No. 72 Furnace
Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)	A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.	Y	
63.7550(c)(1)	If the facility is subject to a the requirements of a tune up they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv) and (xiv) of this section.	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process unit information, emissions limitations, and operating parameter limitations	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(iv)	The total operating time during the reporting period.	Y	
63.7550(c)(5)(xi)	If there are no deviations from any emission limits or operating limits in this subpart that apply to you, a statement that there were no deviations from the emission limits or operating limits during the reporting period.	Y	
63.7550(c)(5)(xiv)	Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period and was delayed until the next scheduled or unscheduled unit shutdown.	Y	
63.7550(c)(5)(xvi i)	Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.	Y	
63.7550(c)(5)(xvi ii)	For each instance of startup or shutdown include the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).	Y	
63.7550(h)(3)	You must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in §63.13. At the discretion of the Administrator, you must also submit these reports, to the Administrator in the format specified by the Administrator.	Y	
63.7555	Recordkeeping Requirements	Y	
63.7555(a)	You must keep records according to paragraphs (a)(1) and (2) of this section.	Y	

Table IV – C.4.6
Source-specific Applicable Requirements

S1106 - No. 72 Furnace
Not Subject to Regulation 9, Rule 10

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7555(a)(1)	A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Y	
63.7555(a)(2)	Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).	Y	
63.7555(a)(3)	For units in the limited use subcategory, you must keep a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and fuel use records for the days the boiler or process heater was operating.	Y	
63.7555(b)	Records for each CEMS, COMS, or CMS for process heaters or boilers	Y	
63.7555(c)	Records of monitoring data and calculated averages for applicable operating limits for process heaters or boilers	Y	
63.7555(d)	Records to demonstrate compliance with applicable emission limits for process heaters or boilers	Y	
63.7560	Record Retention Requirements	Y	
63.7560(a)	Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Y	
63.7560(b)	As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.7560(c)	You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.	Y	
63.7565	Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.	Y	
63.7575	Subpart DDDDD Definitions	Y	
BAAQMD Condition 19199			
Part H0	Maximum fuel firing rate limitation (Basis: cumulative increase)	Y	
Part H1	Natural gas only (Basis: cumulative increase, toxics)	Y	
Part H2	Requirement for fuel flowmeter (Basis: cumulative increase, toxics)	Y	

**Table IV – C.4.6
Source-specific Applicable Requirements**

**S1106 - No. 72 Furnace
Not Subject to Regulation 9, Rule 10**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part H3	Maximum annual fuel use (Basis: cumulative increase, toxics, offsets)	Y	
Part H4	NOx Emission Limit (Basis: BACT, cumulative increase, offsets)	Y	
Part H5	CO Emission Limit (Basis: BACT, cumulative increase, offsets)	Y	
Part H6	POC Emission Limit (Basis: cumulative increase, offsets)	Y	
Part H7	PM-10 Emission Limit (Basis: cumulative increase, offsets)	Y	
Part H8	SO2 Emission Limit (Basis: cumulative increase, BACT, offsets)	Y	
Part H9	Abatement requirements for startup and shutdown (Basis: BACT)	Y	
Part H10	Ammonia Slip Limitation (Basis: toxics)	Y	
Part H11	NOx CEM requirements (Basis: cumulative increase, BACT, offsets)	Y	
Part H12	CO Source test requirements (Basis: startup, offsets, BACT, cumulative increase, toxics)	Y	
Part H13	NOx, CO, POC, SO2, ammonia, and PM10 source test requirements (Basis: start-up, offsets, BACT, cumulative increase, toxics)	Y	
Part H14	Recordkeeping (Basis: cumulative increase, offsets)	Y	
Part H15	Offsets requirements (Basis: offsets)	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

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)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulations 10, 12 and 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	N	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	monitors required by Sections 1-521 or 2-1-403 shall meet the requirements specified by the APCO	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	General Provisions and Definitions (06/28/1999)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter - General Requirements (08/01/2018)		

Table IV – C.4.7
Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.1	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)		
10-4	Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. The 30-day emissions averaging periods specified in the federal standard are deleted and replaced with 24-hour maximum emissions averaging periods for affected facilities in the Bay Area Air Quality Management District.	Y	
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (2/27/2014)		
60.40b	Applicability and delegation of authority	Y	
60.40b(a)	Applicability: Steam generating units modified after June 19, 1984 with heat input capacity ≥ 100 MMBTU/hr	Y	
60.41b	Definitions	Y	
60.42b(k)(2)	Units firing only gaseous fuel with a potential SO ₂ emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO ₂ emissions limit in paragraph (k)(1) of this section.	Y	
60.44b(i)	Compliance with the NO _x emission limits in 60.44b is determined on a 30-day rolling average basis.	Y	

Table IV – C.4.7
Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44b(l)(1)	Do not discharge into the atmosphere any gases that contain NOx (expressed as NO2) in excess of 86 ng/J (0.20 lb/MMBtu) heat input if the affected facility combusts coal, oil, or natural gas (or any combination of the three), alone or with any other fuels.	Y	
60.46b(a)	The NOx emission standards under §60.44b apply at all times.	Y	
60.46b(c)	Compliance with the NOx emission standards under §60.44b shall be determined through performance testing under paragraph (e).	Y	
60.46b(e)	To determine compliance with the emission limits for NOx required under §60.44b, conduct the performance test as required under §60.8 using the continuous system for monitoring NOx under §60.48(b).	Y	
60.46b(e)(1)	(1) For the initial compliance test, NOx is monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the NOx emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.	Y	
60.46b(e)(4)	(4) Following the date on which the initial performance test is completed or required to be completed under §60.8, whichever date comes first, the owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less and that combusts natural gas, distillate oil, gasified coal, or residual oil having a nitrogen content of 0.30 weight percent or less shall upon request determine compliance with the NOx standards in §60.44b through the use of a 30-day performance test. During periods when performance tests are not requested, NOx emissions data collected pursuant to §60.48b(g)(1) or §60.48b(g)(2) are used to calculate a 30-day rolling average emission rate on a daily basis and used to prepare excess emission reports, but will not be used to determine compliance with the NOx emission standards. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NOx emission data for the preceding 30 steam generating unit operating days.	Y	
60.48b(b)	(b) For an affected facility subject to a NOx standard under §60.44b, comply with either paragraphs (b)(1) or (b)(2) of this section.	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.48b(b)(1)	(1) Install, calibrate, maintain, and operate CEMS for measuring NOx and O2 (or CO2) emissions discharged to the atmosphere, and record the output of the system;	Y	
60.48b(c)	(c) The CEMS required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Y	
60.48b(d)	(d) The 1-hour average NOX emission rates measured by the continuous NOX monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/MMBtu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(h)(2).	Y	
60.48b(e)	(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.	Y	
60.48b(e)(2)	(2) For affected facilities combusting coal, oil, or natural gas, the span value for NOx is determined using one of the following procedures:	Y	
60.48b(e)(2)(i)	Span value = 500 ppm for NOx from natural gas.	Y	
60.48b(f)	(f) When NOX emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7 of appendix A of this part, Method 7A of appendix A of this part, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.	Y	
60.48b(g)	The owner or operator of an affected facility that has a heat input capacity of 73 MW (250 MMBtu/hr) or less, and that has an annual capacity factor for residual oil having a nitrogen content of 0.30 weight percent or less, natural gas, distillate oil, gasified coal, or any mixture of these fuels, greater than 10 percent (0.10) shall:	Y	
60.48b(g)(1)	(1) Comply with the provisions of 60.48b(b), (c), (d), (e)(2), (e)(3), and (f);	Y	
60.49b(a)	Submit notification of the date of initial startup, as provided by §60.7. This notification shall include:	Y	

Table IV – C.4.7
Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(a)(1)	The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility.	Y	
60.49b(b)	(b) The owner or operator of each affected facility subject to the SO ₂ , PM, and/or NO _x emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B of this part. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.	Y	
60.49b(d)	Record and maintain records as specified in paragraph (d)(1) of this section.	Y	
60.49b(d)(1)	Record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.	Y	
60.49b(g)	Maintain records of the following information for each steam generating unit operating day:	Y	
60.49b(g)(1)	(1) Calendar date;	Y	
60.49b(g)(2)	(2) The average hourly NO _x emission rates (expressed as NO ₂) (ng/J or lb/MMBtu heat input) measured or predicted;	Y	
60.49b(g)(3)	(3) The 30-day average NO _x emission rates (ng/J or lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;	Y	
60.49b(g)(4)	(4) Identification of the steam generating unit operating days when the calculated 30-day average NO _x emission rates are in excess of the NO _x emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;	Y	
60.49b(g)(5)	(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;	Y	

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Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(g)(6)	(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;	Y	
60.49b(g)(7)	(7) Identification of “F” factor used for calculations, method of determination, and type of fuel combusted;	Y	
60.49b(g)(8)	(8) Identification of the times when the pollutant concentration exceeded full span of the CEMS;	Y	
60.49b(g)(9)	(9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and	Y	
60.49b(g)(10)	(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	Y	
60.49b(h)	Submit excess emission reports for any excess emissions that occurred during the reporting period for this category:	Y	
60.49b(h)(2)	(2) Any affected facility that is subject to the NOx standard of §60.44b, and that:	Y	
60.49b(h)(2)(i)	(i) Combusts natural gas, distillate oil, gasified coal, or residual oil with a nitrogen content of 0.3 weight percent or less;	Y	
60.49b(h)(4)	(4) For purposes of §60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average NOx emission rate, as determined under §60.46b(e), that exceeds the applicable emission limits in §60.44b.	Y	
60.49b(o)	All records required under this section shall be maintained for a period of 2 years following the date of such record.	Y	

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Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.49b(v)	The owner or operator of an affected facility may submit electronic quarterly reports for SO ₂ and/or NO _x and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.	Y	
60.49b(w)	(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.	Y	
40 CFR 60 Appendix B	NSPS - Title 40 Part 60 Appendix B - Performance Specifications (01/12/2004)		
Performance Specification 2	Specifications and Test Procedures for SO ₂ and NO _x Continuous Emission Monitoring Systems in Stationary Sources	Y	
Performance Specification 3	Specifications and Test Procedures for O ₂ and CO ₂ Continuous Emission Monitoring Systems in Stationary Sources	Y	
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (10/06/2022)	Y	
63.7485	Applicable to boilers and heaters located at a major source of HAP emissions	Y	
63.7490(a)	Applicable to any new, reconstructed or existing industrial boiler or process heater	Y	
63.7490(a)(1)	Affected sources is the collection at a major source of all existing industrial, commercial, and institutional boilers and process heaters	Y	
63.7490(a)(2)	The affected source is each new or reconstructed source at a major source;	Y	
63.7490(b)	A boiler or process heater is new if construction commences after June 4, 2010 and meets the applicability criteria for construction	Y	

Table IV – C.4.7
Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7490(c)	A boiler or process heater is reconstructed if reconstruction commences after June 4, 2010 and meets the applicability criteria for reconstruction	Y	
63.7490(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7491	Boilers or process heaters not subject to this subpart	Y	
63.7495(a)	Comply with the requirements for new or reconstructed boilers and process heaters upon startup	Y	
63.7495(b)	Existing boilers and process heaters must comply with this subpart no later than January 31, 2016	Y	
63.7495(d)	Meet the notification requirements according to 63.7545 and 40 CFR Part 63, Subpart A	Y	
63.7495(d)	A boiler or process heater is existing if it is not new or reconstructed	Y	
63.7499	Subcategories of boilers and process heaters	Y	
63.7499(l)	Subcategories: 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) through (3) except as provided in (b) through (e), at all times, except as provided in (f).	Y	
63.7500(a)(1)	Meet each emission limit and work practice standard in Tables 1 through 3, and 11 through 13 to this subpart that applies to your boiler or process heater, for each boiler or process heater at your source, except as provided under §63.7522.	Y	
63.7500(a)(2)	Comply with each operating limit in Table 4 that applies to the affected source.	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(b)	EPA may approve use of an alternative work practice standard	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7500(e)	Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity of less than or equal to 5 million Btu per hour must complete a tune-up every 5 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory with a heat input capacity greater than 5 million Btu per hour and less than 10 million Btu per hour must complete a tune-up every 2 years as specified in §63.7540. Boilers and process heaters in the units designed to burn gas 1 fuels subcategory are not subject to the emission limits in Tables 1 and 2 or 11 through 13 to this subpart, or the operating limits in Table 4 to this subpart.	Y	
63.7500(f)	These standards apply at all times the affected unit is operating, except during periods of startup and shutdown during which time you must comply only with Items 5 and 6 of Table 3 to this subpart.	Y	
63.7505	General requirements for compliance	Y	
63.7505(a)	You must be in compliance with the emission limits, work practice standards, and operating limits in this subpart. These limits apply to you at all times the affected unit is operating except for the periods noted in §63.7500(f).	Y	
63.7505(c)	Demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or continuous monitoring systems (CMS), including a continuous emission monitoring system (CEMS), or particulate matter continuous parameter monitoring system (PM CPMS), where applicable	Y	
63.7505(d)	If you demonstrate compliance with any applicable emission limit through performance testing and subsequent compliance with operating limits through the use of CPMS, or with a CEMS or COMS, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section for the use of any CEMS, COMS, or CPMS. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).	Y	
63.7510	Initial compliance requirements and dates	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7510(e)	For existing affected sources (as defined in §63.7490), you must complete the initial compliance demonstration, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the compliance date that is specified for your source in §63.7495 and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart, except as specified in paragraph (j) of this section. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than the compliance date specified in §63.7495, except as specified in paragraph (j) of this section. You must complete the one-time energy assessment specified in Table 3 to this subpart no later than the compliance date specified in §63.7495..	Y	
63.7510(j)	For existing affected sources (as defined in §63.7490) that have not operated between the effective date of the rule and the compliance date that is specified for your source in §63.7495, you must complete the initial compliance demonstration, if subject to the emission limits in Table 2 to this subpart, as specified in paragraphs (a) through (d) of this section, no later than 180 days after the re-start of the affected source and according to the applicable provisions in §63.7(a)(2) as cited in Table 10 to this subpart. You must complete an initial tune-up by following the procedures described in §63.7540(a)(10)(i) through (vi) no later than 30 days after the re-start of the affected source and, if applicable, complete the one-time energy assessment specified in Table 3 to this subpart, no later than the compliance date specified in §63.7495.	Y	
63.7515	Subsequent performance tests, fuel analyses, and tune-up requirements	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7515(d)	If you are required to meet an applicable tune-up work practice standard, you must conduct an annual, biennial, or 5-year performance tune-up according to §63.7540(a)(10), (11), or (12), respectively. Each annual tune-up specified in §63.7540(a)(10) must be no more than 13 months after the previous tune-up. Each biennial tune-up specified in §63.7540(a)(11) must be conducted no more than 25 months after the previous tune-up. Each 5-year tune-up specified in §63.7540(a)(12) must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed affected source (as defined in §63.7490), the first annual, biennial, or 5-year tune-up must be no later than 13 months, 25 months, or 61 months, respectively, after April 1, 2013 or the initial startup of the new or reconstructed affected source, whichever is later.	Y	
63.7521(f)	To demonstrate that a gaseous fuel other than natural gas or refinery gas qualifies as an other gas 1 fuel, as defined in § 63.7575, you must conduct a fuel specification analyses for mercury according to the procedures in paragraphs (g) through (i) of this section and Table 6 to this subpart, as applicable, except as specified in paragraph (f)(1) through (4) of this section, or as an alternative where fuel specification analysis is not practical, you must measure mercury concentration in the exhaust gas when firing only the gaseous fuel to be demonstrated as an other gas 1 fuel in the boiler or process heater according to the procedures in Table 6 to this subpart.	Y	
63.7540	Continuous compliance demonstration requirements for emission limits, fuel specifications, and work practice standards	Y	
63.7540(a)	Demonstrate continuous compliance with each emission limit in Tables 1 and 2 or 11 through 13 to this subpart, the work practice standards in Table 3 to this subpart, and the operating limits in Table 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (19) of this section.	Y	
63.7540(a)(10)	If your boiler or process heater has a heat input capacity of 10 million Btu per hour or greater, you must conduct an annual tune-up of the boiler or process heater to demonstrate continuous compliance as specified in paragraphs (a)(10)(i) through (vi) of this section. This frequency does not apply to limited-use boilers and process heaters, as defined in §63.7575, or units with continuous oxygen trim systems that maintain an optimum air to fuel ratio.	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(i)	As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. At units where entry into a piece of process equipment or into a storage vessel is required to complete the tune-up inspections, inspections are required only during planned entries into the storage vessel or process equipment;	Y	
63.7540(a)(10)(ii)	Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;	Y	
63.7540(a)(10)(iii)	Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection;	Y	
63.7540(a)(10)(iv)	Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject;	Y	
63.7540(a)(10)(v)	Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer; and	Y	
63.7540(a)(10)(vi)	Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (a)(10)(vi)(A) through (C) of this section,	Y	
63.7540(a)(10)(vi)(A)	The concentrations of CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler or process heater;	Y	
63.7540(a)(10)(vi)(B)	A description of any corrective actions taken as a part of the tune-up; and	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7540(a)(10)(vi)(C)	The type and amount of fuel used over the 12 months prior to the tune-up, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel used by each unit.	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	
63.7540(d)	For startup and shutdown, meet the work practice standards according to Items 5 and 6 of Table 3	Y	
63.7545	Notification Requirements	Y	
63.7545(a)	You must submit to the Administrator all of the notifications in §63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) that apply to you by the dates specified.	Y	
63.7545(b)	As specified in §63.9(b)(2), if you startup your affected source before January 31, 2013, you must submit an Initial Notification not later than 120 days after January 31, 2013.	Y	
63.7545(e)	If you are required to conduct an initial compliance demonstration as specified in §63.7530, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii). For the initial compliance demonstration for each boiler or process heater, you must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for all boiler or process heaters at the facility according to §63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in paragraphs (e)(1) through (8), as applicable. If you are not required to conduct an initial compliance demonstration as specified in §63.7530(a), the Notification of Compliance Status must only contain the information specified in paragraphs (e)(1) and (8) of this section and must be submitted within 60 days of the compliance date specified at §63.7495(b).	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7545(e)(1)	A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, a description of the add-on controls used on the unit to comply with this subpart, description of the fuel(s) burned, including whether the fuel(s) were a secondary material determined by you or the EPA through a petition process to be a non-waste under §241.3 of this chapter, whether the fuel(s) were a secondary material processed from discarded non-hazardous secondary materials within the meaning of §241.3 of this chapter, and justification for the selection of fuel(s) burned during the compliance demonstration.	Y	
63.7545(e)(6)	For process heaters or boilers, a signed certification of compliance with all applicable emission limits and work practice standards	Y	
63.7545(e)(7)	For process heaters or boilers, a description of any deviation from any work practice standard or operating limit	Y	
63.7545(e)(8)	In addition to the information required in §63.9(h)(2), your notification of compliance status must include the following certification(s) of compliance, as applicable, 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	Reporting Requirements	Y	
63.7550(a)	You must submit each report in Table 9 to this subpart that applies to you.	Y	
63.7550(b)	Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report, according to paragraph (h) of this section, by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (4) of this section. For units that are subject only to a requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, you may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (b)(1) through (4) of this section, instead of a semi-annual compliance report.	Y	

Table IV – C.4.7
Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(b)(1)	The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in §63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for your source in §63.7495.	Y	
63.7550(b)(2)	The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in §63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.	Y	
63.7550(b)(3)	Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.	Y	
63.7550(b)(4)	Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.	Y	
63.7550(c)	A compliance report must contain the following information depending on how the facility chooses to comply with the limits set in this rule.	Y	
63.7550(c)(1)	If the facility is subject to a the requirements of a tune up they must submit a compliance report with the information in paragraphs (c)(5)(i) through (iv) and (xiv) of this section.	Y	
63.7550(c)(5)(i)	Company and Facility name and address	Y	
63.7550(c)(5)(ii)	Process unit information, emissions limitations, and operating parameter limitations	Y	
63.7550(c)(5)(iii)	Date of report and beginning and ending dates of the reporting period	Y	
63.7550(c)(5)(iv)	The total operating time during the reporting period.	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7550(c)(5)(xi)	If there are no deviations from any emission limits or operating limits in this subpart that apply to you, a statement that there were no deviations from the emission limits or operating limits during the reporting period.	Y	
63.7550(c)(5)(xiv)	Include the date of the most recent tune-up for each unit subject to only the requirement to conduct an annual, biennial, or 5-year tune-up according to §63.7540(a)(10), (11), or (12) respectively. Include the date of the most recent burner inspection if it was not done annually, biennially, or on a 5-year period 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 content of the report.	Y	
63.7550(c)(5)(xviii)	For each instance of startup or shutdown include the information required to be monitored, collected, or recorded according to the requirements of §63.7555(d).	Y	
63.7550(h)(3)	You must submit all reports required by Table 9 of this subpart electronically using CEDRI that is accessed through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report you must submit the report to the Administrator at the appropriate address listed in §63.13. At the discretion of the Administrator, you must also submit these reports, to the Administrator in the format specified by the Administrator.	Y	
63.7555	Recordkeeping Requirements	Y	
63.7555(a)	You must keep records according to paragraphs (a)(1) and (2) of this section.	Y	
63.7555(a)(1)	A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).	Y	
63.7555(a)(2)	Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in §63.10(b)(2)(viii).	Y	
63.7555(d)	Records to demonstrate compliance with applicable emission limits for process heaters or boilers	Y	

**Table IV – C.4.7
 Source-specific Applicable Requirements**

**Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78) Abated by A1511
 S1512 (F79) Abated by A1512**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7555(g)	Maintain records of testing for “other gas 1” fuel	Y	
63.7560	Record Retention Requirements	Y	
63.7560(a)	Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).	Y	
63.7560(b)	As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.7560(c)	You must keep each record on site, or they must be accessible from on site (for example, through a computer network), for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.	Y	
63.7565	Table 10 to this subpart shows which parts of the General Provisions in §63.1 through 63.15 apply to you.	Y	
63.7575	Subpart DDDDD Definitions	Y	
BAAQMD Condition 13605			
Part 4	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
BAAQMD Condition 20099			
Part 6	100 # fuel gas system destruction efficiency source test of S-532 oil-water separator tank every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
BAAQMD Condition 21053			
Part 7	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal	Y	
BAAQMD Condition 21849			
Part 11.d	100 # fuel gas system destruction efficiency source test every 5 years in the year prior to 5-year Title V renewal (Basis: Cumulative Increase, Toxic Risk Screen, Regulation 8-33-301, Regulation 1-238,BACT)	Y	

Table IV – C.4.7
Source-specific Applicable Requirements

Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78) Abated by A1511
S1512 (F79) Abated by A1512

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 23129			
Part 10	Fuel type limit (Basis: cumulative increase, BACT)	Y	
Part 11	Fuel gas TRS limits (daily and annual) (Basis: BACT)	Y	
Part 12	NOx and CO emission limits (Basis: BACT)	Y	
Part 12a	NOx and CO emission limits during SSM (Basis: cumulative increase, offsets)	Y	
Part 12b	CO emission limit for up to 100 days per year (Basis: cumulative increase, offsets)	Y	
Part 13	Ammonia emission limit (Basis: cumulative increase, toxics)	Y	
Part 14	Annual firing rate limit (Basis: cumulative increase)	Y	
Part 15	Natural gas total sulfur limit – PG&E records (Basis: BACT for SO2 and PM10 when firing natural gas)	Y	
Part 17	Sulfuric acid mist emissions (SAM) (Basis: PSD)	Y	
Part 19	TRS CEM (Basis: Regulation 2-2-208, Cumulative Increase)	Y	
Part 20	S-1511 & S-1512 abatement requirements (Basis: cumulative increase)	Y	
Part 21	NOx CEM (Basis: cumulative increase, BACT, offsets)	Y	
Part 22	CO CEM (Basis: cumulative increase, BACT, offsets)	Y	
Part 23	O2 CEM (Basis: cumulative increase, BACT, offsets)	Y	
Part 24	Fuel flow meter (Basis: cumulative increase)	Y	
Part 25	Fuel gas calorimeter (Basis: BACT, cumulative increase, offsets, toxics)	Y	
Part 26	Initial source test (4 test conditions) (Basis: compliance demonstration, PSD avoidance, source test compliance verification)	Y	
Part 27	Record format and retention (Basis: Regulation 2-6-501)	Y	
Part 28	Recordkeeping S-1511 & S-1512 (Basis: BACT, offsets, cumulative increase)	Y	

Table IV – C.4.8
Source-specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Section C.5 Combustion – Gas Turbines

**Table IV – C.5.1
Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

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

**Table IV – D.1
 Source-specific Applicable Requirements**

**Facility B2759 S55 – Exempt Amorco Wharf Terminal
 Renewable Diesel Loading Only**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 22455			
Part 8	Throughput Limit (Basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 11	Prohibition on loading material other than renewable diesel (Basis: cumulative increase)	Y	
Part 12	Records (Basis: cumulative increase, recordkeeping, Reg. 1-441)	Y	
Part 13	Ensure average TVP over 12-month consecutive period is less than or equal to 0.012 psia (Basis: Regulation 2-1-319 Permitting Requirements)	Y	
Part 14	Do not exceed exemption threshold of 5 tpy (Basis: Regulation 2-1-319 Permitting Requirements)	Y	

**Table IV – D.2
 Source-specific Applicable Requirements**

[Deleted. Removed From Service in 2017. Replaced with S1560.]

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

**Table IV – D.3
 Source-specific Applicable Requirements**

S101 - Truck Unloading Rack – Tract 2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (11/03/2021)		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-304	Deliveries to Storage Tanks	Y	

Table IV – D.3
Source-specific Applicable Requirements

S101 - Truck Unloading Rack – Tract 2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-6-305	Delivery Vehicle Requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	

Table IV – D.4
Source-specific Applicable Requirements

[Deleted. Demolished in 2017. Replaced with S1560]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – D.5
Source-specific Applicable Requirements

**S115 - Bulk Plant Truck/Rail
 Caustic Waste Loading Rack**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (11/03/2021)		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-302	Bulk plant limitations	Y	
8-6-305	Delivery vehicle requirements	Y	

Table IV – D.5
Source-specific Applicable Requirements

S115 - Bulk Plant Truck/Rail
Caustic Waste Loading Rack

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	
BAAQMD Condition 27587			
Part 1	Daily and annual throughput limits (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 17	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Table IV – D.6
Source-specific Applicable Requirements
S126, S127 - Exempt LPG Loading Racks

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (11/03/2021)		
8-6-101	Description: applicability	Y	
8-6-117	Exemption, Liquified Organic Gases	Y	
8-6-503	Burden of Proof	Y	
BAAQMD Condition 27543			
Part 1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

**Table IV – D.7
 Source-specific Applicable Requirements**

**S1025 - Bulk Plant Truck
 Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
 Abated by A14 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Applicable to Non-Gasoline Loading Only			
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (11/03/2021)		
8-6-101	Description: applicability	Y	
8-6-110	Exemption, Low Vapor Pressure Organic Liquids – this rule does not apply to loading and delivery of any organic liquid with TVP < 0.5 psia	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-301	Bulk terminal limitations	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	
Applicable to Gasoline Loading Only			
BAAQMD Regulation 8 Rule 33	Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (11/03/2021)		
8-33-101	Description: applicability	N	
8-33-112	Exemption: Tank Gauging and Inspection	N	
8-33-113	Exemption: Maintenance and Repair	N	
8-33-114	Exemption, CARB Certification	N	
8-33-116	Limited Exemption, Source Test Requirements - emissions routed to fuel gas system exempt from 8-33-309.4 emission factor source test requirement if other requirements met	N	
8-33-205	Liquid Leak Free: < 3 drops/minute or 10 mL per disconnect	N	

Table IV – D.7
Source-specific Applicable Requirements

S1025 - Bulk Plant Truck
Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-33-216	Vapor Leak Free: < 3,000 ppm or 6% of LEL	N	
8-33-301	Final gasoline bulk terminal limitations	N	
8-33-301.1	CARB certified vapor recovery system required	N	
8-33-301.2	VOC limitation: 0.04 lb/1000 gallons of organic liquid loaded	N	
8-33-303	Bottom fill requirement	N	
8-33-304	Gasoline Cargo Tank Requirements	N	
8-33-304.1	Vapor Integrity Requirement	N	
8-33-304.2	Vapor recovery requirement	N	
8-33-304.4	Purging requirement	N	
8-33-304.5	Drainage Requirement	N	
8-33-304.6	Vapor Tight Requirement	N	
8-33-304.7	Vapor Leak Requirement	N	
8-33-304.8	Liquid Leak Requirements	N	
8-33-304.9	Compatible Connectors Requirement	N	
8-33-304.10	Vapor Hose Storage Requirement	N	
8-33-304.11	Maintenance Requirement	N	
8-33-305	Gasoline Bulk Terminal Equipment Maintenance and Repair	N	
8-33-305.1	Good Working Order	N	
8-33-305.2	Transfer retained gasoline to portable maintenance containers or slop tank prior to maintenance, openings in a closed position	N	
8-33-305.3	Leak free portable maintenance containers	N	
8-33-305.4	Backpressure monitors	N	
8-33-306	Operating practices	N	
8-33-307	Loading practices	N	
8-33-307.1	Compatible Connectors Requirement	N	
8-33-307.2	CARB-certified vapor recovery system requirement	N	
8-33-309	Gasoline Bulk Terminal Vapor Recovery System Requirements	N	
8-33-309.1	CARB Certified Vapor Recovery System requirement	N	
8-33-309.2	Cargo tank/vapor hose interface gauge pressure requirement	N	
8-33-309.3	Good working order	N	

Table IV – D.7
Source-specific Applicable Requirements

S1025 - Bulk Plant Truck
Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-33-309.5	Vapor Leak Requirement	N	
8-33-309.6	Liquid Leak Requirements	N	
8-33-309.7	Block or vapor check valve requirement	N	
8-33-309.8	Daily inspection of P/V valves, liquid fill, and vapor hose connections	N	
8-33-309.9	Vapor hose hanger requirement	N	
8-33-309.10	Install backpressure monitor, conduct annual correlation test	N	
8-33-309.11	Backpressure monitoring and limiting system requirement	N	
8-33-309.11.1	Option 1: Install an alarm and recording system	N	
8-33-309.12	Backpressure exceedance - shutdown and notification requirement	N	
8-33-309.13	Parametric monitoring requirement	N	
8-33-309.13.2	Option 2: Alternate parametric monitoring protocol	N	
8-33-309.14	Monitor parametric limits and parametric exceedance notification	N	
8-33-309.15	P/V sample line requirement	N	
8-33-401	Equipment installation and modification	N	
8-33-401.1	Comply with Reg. 2, Rule 1	N	
8-33-401.2	Submit CARB certification application before undertaking:	N	
8-33-401.2.1	Operation or a new or replacement vapor recovery system	N	
8-33-401.2.2	Replacement or modification of equipment that will exceed CARB throughput limits	N	
8-33-401.2.3	Operation of a vapor recovery system in a non-certified CARB mode	N	
8-33-401.2.4	Submittal of an application for a revised BAAQMD Permit to Operate	N	
8-33-403	Bulk Terminal Monitoring, Inspection, Notification and Reporting Requirements – develop a plan that meets the following requirements	N	
8-33-403.1	40 CFR Part 60, Subpart XX, §60.502	N	
8-33-403.2	40 CFR Part 63, Subpart R, §63.424, §63.425, §63.427, §63.428	N	
8-33-403.4	Sections 8-33-309.8, 309.11, 309.12, and 309.14	N	
8-33-501	Burden of proof (exemptions)	N	
8-33-504	Pressure/Vacuum Valve, Liquid Fill and Vapor Hose Connector Leak Check Records	N	

Table IV – D.7
Source-specific Applicable Requirements

S1025 - Bulk Plant Truck
Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-33-505	Loading Rack Backpressure Records	N	
8-33-506	Parametric Correlation Records	N	
8-33-507	Parametric Variable Monitoring Records	N	
8-33-601	Emission Rate Determination (Vapor Processing Systems)	N	
8-33-603	Back Pressure Determination from Vapor Recovery Systems	N	
8-33-604	Vapor Tight (Gasoline Cargo Tanks)	N	
8-33-605	Analysis of Samples	N	
8-33-606	Vapor Leak Concentration Determination	N	
SIP Regulation 8 Rule 33	Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/03/95)		
8-33-101	Description: Applicability	Y	
8-33-113	Exemption: Maintenance and Repair	Y	
8-33-301	Final gasoline bulk terminal limitations	Y	
8-33-303	Bottom fill requirement	Y	
8-33-304	Delivery vehicle requirements	Y	
8-33-304.1	Vapor Integrity Requirement	Y	
8-33-304.2	Vapor Recovery Requirement	Y	
8-33-304.4	Purging requirement	Y	
8-33-305	Equipment Maintenance	Y	
8-33-306	Operating Practices	Y	
8-33-307	Loading Practices	Y	
8-33-309	Vapor Recovery System Requirements – Loading Rack	Y	
8-33-401	Equipment installation and modification	Y	
8-33-501	Burden of proof (exemptions)	Y	
8-33-601	Emission Rate Determination (Vapor Processing Systems)	Y	
8-33-605	Analysis of Samples	Y	
40 CFR 63 Subpart R	NESHAPS for Source Categories - Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/04/2020)		
63.421	Definitions	Y	

Table IV – D.7
Source-specific Applicable Requirements

S1025 - Bulk Plant Truck
Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.422(a)	Comply with 60.502, except not (b), (c), and (j)	Y	
63.422(b)	Emissions to the atmosphere from the vapor collection and processing systems due to the loading of gasoline cargo tanks shall not exceed 10 milligrams of total organic compounds per liter of gasoline loaded.	Y	
63.422(c)	Comply with 60.502(e)	Y	
63.427(a)	Install, calibrate, certify, operate, and maintain, according to the manufacturer's specifications, a continuous monitoring system (CMS) as specified in paragraph (a)(1) of this section.	Y	
63.427(a)(1)	Where a carbon adsorption system is used, a CEMS capable of measuring organic compound concentration shall be installed in the exhaust air stream.	Y	
63.427(b)	Operate the vapor processing system in a manner not to exceed the operating parameter value for the parameter described in paragraphs (a)(1). Operation of the vapor processing system in a manner exceeding the operating parameter value shall constitute a violation of the emission standard in §63.422(b).	Y	
63.428	Reporting and Recordkeeping requirements	Y	
63.428(b)	Gasoline cargo tank test results (can comply with alternative requirement in 63.428(k))	Y	
63.428(c)	Continuous monitoring data	Y	
63.428(g)	Semiannual report	Y	
63.428(g)(1)	Semiannual report; Each loading of a gasoline cargo tank for which vapor tightness documentation had not been previously obtained by the facility	Y	
63.428(h)	Excess emissions report (required whether or not a CMS is installed at the facility)	Y	
63.428(h)(2)	Each instance of a non vapor-tight gasoline cargo tank loading at the facility in which the owner or operator failed to take steps to assure that such cargo tank would not be reloaded at the facility before vapor tightness documentation for that cargo tank was obtained.	Y	
63.428(h)(3)	Each reloading of a nonvapor-tight gasoline cargo tank at the facility before vapor tightness documentation for that cargo tank is obtained by the facility in accordance with §63.422(c)(2).	Y	
63.428(k)	Alternatives to keeping records at the terminal of each gasoline cargo tank test result as required in paragraph 63.428(b) :	Y	

Table IV – D.7
Source-specific Applicable Requirements

S1025 - Bulk Plant Truck
Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.428(k)(2)	Alternative 2: For facilities that use a terminal automation system to prevent gasoline cargo tanks that do not have valid cargo tank vapor tightness documentation from loading (e.g., via a card lock-out system), a copy of the documentation is available for inspectors within a mutually agreeable time frame.	Y	
40 CFR 60 Subpart XX	NSPS – Bulk Gasoline Terminals (12/19/2003) (Subject only to Section 60.502 as referenced from 40 CFR 63 Subpart R, 63.422(a))		
60.502	Standards for VOC	Y	
60.502(a)	Vapor Collection system requirement	Y	
60.502(e)	Requirements for ensuring only vapor-tight gasoline tank trucks are loaded	Y	
60.502(f)	Truck and loading rack vapor collection equipment must be compatible	Y	
60.502(g)	Owner/operator shall ensure truck and loading rack vapor collection equipment is connected	Y	
60.502(h)	Pressure limit in delivery tank	Y	
60.502(i)	Pressure-vacuum valve set point requirements	Y	
40 CFR 63 Subpart FFFF	NESHAPS for Miscellaneous Organic Chemical Manufacturing (11/19/2020) (Group 2 Transfer Racks: contains organic HAP with an average partial pressure of less than 1.5 psia – control is not required)		
63.2550	Definitions – Group 2 Transfer Rack		
Applicable to All Loading Events			
BAAQMD Condition 21849			
Part 8	Apply for proper certification from CARB for A-14 prior to startup (Basis: Reg. 8-33-301, 302)	Y	
Part 9	Throughput limits (Basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 10	Material to be transferred (Basis: cumulative increase, offsets, toxics risk screen)	Y	
Part 11	Limit of 0.04 lb POC per 1000 gal of material transferred: a) vent to S-613 or A-14 b) sample line from pressure-vacuum valves c) pressure switch at knockout pot, V-61 d) source tests (Basis: cumulative increase, toxics risk screen, reg. 8-33-301, Reg. 1-238, BACT)	Y	
Part 12	Records and reporting	Y	

Table IV – D.7
Source-specific Applicable Requirements

S1025 - Bulk Plant Truck
Bottom Loading Rack – Gasoline, Diesel, and Renewable Diesel
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 26033			
Part 1	Final fugitive component count (Basis: Reg 2-1-403 and 8-33-309.10)	Y	
Part 2	Permitted fugitive components (Basis: Cumulative Increase, Regulation 2, Rule 5, Regulation 8, Rule 33)	Y	
Part 3	Quarterly monitoring for leaks. (Basis: Regulation 8, Rule 33)	Y	
Part 4	Repair and re-inspect all fugitive components within 60 days of discovering a leak (Basis: Regulation 2-1-403 and Regulation 2, Rule 5)	Y	
Part 5	Correlation testing requirements for each backpressure monitor (Basis: Regulation 8, Rule 33)	Y	
Part 6	Recordkeeping requirements (Basis: Reg 2-1-403)	Y	
BAAQMD Condition 27543			
Part 1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Table IV – D.8
Source-specific Applicable Requirements

S1504 - Ethanol Unloading Rack
S1528 - Alkylate Railcar Unloading Rack

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 6	Organic Compounds - Organic Liquid Bulk Terminals and Bulk Plants (11/03/2021)		
8-6-101	Description: applicability	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-301	Bulk terminal limitations	Y	
8-6-302	Bulk plant limitations	Y	
8-6-302.1	Vapor Recovery Requirement	Y	
8-6-302.2	Submerged Fill Requirement	Y	
8-6-304	Deliveries to Storage Tanks	Y	
8-6-305	Delivery vehicle requirements	Y	
8-6-306	Equipment Maintenance	Y	
8-6-307	Operating practices	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	
8-6-503	Burden of Proof for exemptions	Y	
8-6-601	Efficiency and Rate Determination	Y	
8-6-603	Analysis of Samples, True Vapor Pressure	Y	
8-6-604	Determination of Applicability	Y	
BAAQMD Condition 13605	Applies to S1528 only		
Part 1	Throughput limitations (Basis: cumulative increase)	Y	
Part 5	Recordkeeping	Y	
BAAQMD Condition 21849	Applies to S1504 only		
Part 13	Throughput limits (Basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 14	Material throughput(Basis: cumulative increase, offsets, toxic risk screen)	Y	
Part 15	Records (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238, Regulation 8-6-501)	Y	

Table IV – D.9
Source-specific Applicable Requirements
S1525 - Non-Retail Service Station 1 Nozzle

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 7	Organic Compounds - Gasoline Dispensing Facilities (11/03/2021)		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB certified Phase 1 Vapor Recovery System	Y	
8-7-301.2	Install Phase I equipment per CARB Requirements and meet Phase I vapor recovery efficiency standards	Y	
8-7-301.3	Requirement for submerged fill pipe	Y	
8-7-301.5	Maintain Phase 1 equipment per manufacturer and/or CARB Executive Order	Y	
8-7-301.6	Leak-Free, Vapor-Tight		
8-7-301.7	Requirement for CARB-certified poppeted fitting on vapor return	Y	
8-7-301.8	Coaxial Hose Prohibition	Y	
8-7-301.9	Requirement for CARB-certified anti-rotational coupler or swivel adapter	Y	
8-7-301.10	Requirement for Phase I vapor recovery system rate	Y	
8-7-301.12	Requirement for drain valves to be permanently plugged	Y	
8-7-301.13	Phase I Vapor Recovery System – Vapor Tightness Test	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB-Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks required on bellows-equipped vapor recovery nozzles	Y	
8-7-302.7	Built-In Vapor Check Valve required on vapor recovery nozzle on balance system	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose Prohibition	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing requirements	Y	
8-7-302.12	Liquid Retainment Limit and CARB test procedure	Y	
8-7-302.13	Spitting Limit and CARB test procedure	Y	
8-7-303	Topping Off	Y	

Table IV – D.9
Source-specific Applicable Requirements
S1525 - Non-Retail Service Station 1 Nozzle

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	CARB Certification requirements for New or Modified Phase II Installations	Y	
8-7-313.1	CARB certification test emission limit on nozzle fill interface, Storage tank vent pipes and pressure-related fugitives	Y	
8-7-313.2	CARB certification test emission limit on spillage	Y	
8-7-313.3	CARB certification test emission limit on liquid retain and spitting	Y	
8-7-316	Pressure Vacuum Valve Requirement, Aboveground Storage Tanks and Vaulted Below-Grade Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Recordkeeping Requirements	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
8-7-602	Determination of Equipment in Compliance with Vapor Tightness requirements	Y	
8-7-603	Determination of Equipment in Compliance with Phase I Vapor Recovery Efficiency	Y	
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements	Y	
8-7-606	Determination of Applicability	Y	
BAAQMD Condition 16516			
Part 1	Conduct Static Pressure Performance Test (Leak Test) ST-38 annually.	Y	

Table IV – D.9
Source-specific Applicable Requirements
S1525 - Non-Retail Service Station 1 Nozzle

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Notify BAAQMD Source Test 48 hours before source tests. Submit test results within 30 days in specified format.	Y	
BAAQMD Condition 24171			
Part 1	Phase I equipment installation requirements	Y	
Part 2	Tank and Phase II equipment installation requirements	Y	
Part 3	Initial Leak Test requirement	Y	
Part 4	Initial Leak Test notification and test results submittal requirements	Y	
BAAQMD Condition 24172			
Part 1	Annual throughput limit for S1525 (Basis: District Toxic Risk Management Policy)	Y	

Table IV – D.10
Source-specific Applicable Requirements

S613 - Vapor Storage Tank
Vented to A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 33	Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (11/03/2021)		
8-33-308	Vapor Storage Tank Requirements	N	
8-33-308.1	TOC emissions in airspace above vapor storage tank diaphragm: < 3,000 ppm (C1)	N	
8-33-308.2	Monitor TOC weekly	N	
8-33-502	Vapor Storage Tank Emissions Records	N	
SIP Regulation 8 Rule 33	Organic Compounds - Gasoline Bulk Terminals And Gasoline Delivery Vehicles (04/03/1995)		
8-33-308	Vapor Diaphragm Requirements	Y	

**Table IV – D.11
 Source-specific Applicable Requirements**

**S1560 Avon Wharf Berth 1A
 With A1560 Vapor Recovery**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 44	Organic Compounds – Marine Tank Vessel Operations (11/03/2021)		
8-44-110	Exemption: small loading events	N	
8-44-111	Exemption: marine vessel fueling	N	
8-44-115	Exemption: safety/emergency operations	N	
8-44-116	Limited Exemption: equipment leaks – Can comply with BAAQMD 8-18 rather than 8-44-305	N	
8-44-301	Limitations on Marine Tank Vessel Loading and Lightering	N	
8-44-301.1	Loading regulated organic liquid in marine tank vessel must comply with control requirements in 8-44-304	N	
8-44-301.2	Loading any liquid into marine tank vessel must comply with control requirements in 8-44-304 when last load in vessel was regulated organic liquid	N	
8-44-304	Emission Control Requirements for loading (8-44-301), Ballasting (8-44-302), and Venting (8-44-303) [must comply with both requirements]	N	
8-44-304.1	Comply with emissions limit: 5.7 g/cubic meter (2 lb/1000 barrels loaded) or reduce emissions by 95%; AND	N	
8-44-304.2	Use emission control equipment	N	
8-44-305	Equipment Leaks	N	
8-44-403	Notification Regarding Safety/Emergency Exemption	N	
8-44-501	Record keeping – Marine Terminals	N	
8-44-501.1	Record keeping – Marine Terminals; Loading Event (8-44-301) Records	N	
8-44-501.2	Record keeping – Marine Terminals; Ballasting Event (8-44-302) Records	N	
8-44-501.3	Record keeping – Marine Terminals; Venting Event (8-44-303) Records	N	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of proof	Y	
8-44-503	Recordkeeping - Exemptions	N	
8-44-503.1	Recordkeeping – Exemptions – 8-44-110	N	

Table IV – D.11
Source-specific Applicable Requirements

S1560 Avon Wharf Berth 1A
With A1560 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-503.2	Recordkeeping – Exemptions – 8-44-111	N	
8-44-503.3	Recordkeeping – Exemptions – 8-44-115	N	
8-44-504	Burden of proof	N	
8-44-601	Determination of Emission Factors and Emission Control Equipment Efficiencies	N	
8-44-603	Leak Determinations	N	
8-44-604	Flash Point Determinations	N	
SIP Regulation 8 Rule 44	Organic Compounds – Marine Vessel Loading Terminals (08/30/1993)		
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 bbls) of organic liquid loaded, or	Y	
8-44-301.2	POC emissions reduced 95% by weight from uncontrolled conditions	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order	Y	
8-44-304.2	Loading ceases any time gas or liquid leaks are discovered	Y	
8-44-402	Safety/Emergency Operations	Y	
8-44-402.1	Rule does not require act/omission in violation of Coast Guard/other rules	Y	
8-44-402.2	Rule does not prevent act/omission for vessel safety or saving life at sea	Y	
8-44-501	Record keeping	Y	
8-44-501.1	Name and location	Y	
8-44-501.2	Responsible company	Y	
8-44-501.3	Dates and times	Y	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of proof	Y	

Table IV – D.11
Source-specific Applicable Requirements

S1560 Avon Wharf Berth 1A
With A1560 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-601	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	
40 CFR 63 Subpart Y	NESHAPS for Marine Vessel Loading of Organic Liquids (11/19/2020)		
63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y	
63.560(a)(1)	Maximum Achievable Control Technology (MACT) Applicability; New sources subject to 63.562(b) & (d)	Y	
63.560(b)(1)	Reasonably Achievable Control Technology (RACT) Applicability Sources with throughputs of 10 M barrels (gasoline) and 200M barrels (crude oil) subject to 63.562(c) & (d).	Y	
63.560(c)	Comply with 40 CFR 63 Subpart A per Table 1	Y	
63.560(d)(7)	Exemptions from MACT & RACT Standards – marine tank vessel ballasting operations are exempt from Subpart Y	Y	
63.561	Definitions	Y	
63.562	Standards	Y	
63.562(b)(1)(i)	Vapor collection system required	Y	
63.562(b)(1)(ii)	Ship-to-shore compatibility	Y	
63.562(b)(1)(iii)	Vapor tightness of marine vessels	Y	
63.562(b)(3)	MACT for new sources: Destruction efficiency > 98% by weight	Y	
63.562(c)	RACT Standards	Y	
63.562(c)(2)(i)	Vapor collection system required	Y	
63.562(c)(2)(ii)	Ship-to-shore compatibility	Y	
63.562(c)(2)(iii)	Vapor tightness of marine vessels	Y	
63.562(c)(3)	RACT standard: Destruction efficiency > 98% by weight	Y	
63.562(c)(4)	RACT standard: Meet 63.562(c)(3) by reducing gasoline outlet VOC to 1000 ppmv	Y	
BAAQMD Condition 26406			
Part 1	Throughput limit. Crude oil prohibited. (Basis: Cumulative Increase, Offsets)	Y	
Part 2	Cargo Carrier emission limits. (Basis: Cumulative Increase, Offsets)	Y	

Table IV – D.11
Source-specific Applicable Requirements

S1560 Avon Wharf Berth 1A
With A1560 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Unloading and loading recording requirements. (Basis: Cumulative Increase, Offsets)	Y	
Part 4	Emission limits and calculation method for loading operations. (Basis: Cumulative Increase, Offsets)	Y	
Part 5	Different calculation method allowed with APCO approval. (Basis: Cumulative Increase, Offsets)	Y	
Part 6	Vapor recovery requirements for loading operations. (Basis: Cumulative Increase, Offsets)	Y	
Part 7	Vapor recovery system pressure recorder/controller requirements. (Basis: Cumulative Increase)	Y	
Part 8	Relief valve monitoring requirements. (Basis: Cumulative Increase, Regulation 8-18)	Y	
Part 11	Recordkeeping requirements. (Basis: Recordkeeping)	Y	
Part 13	Throughput limit for loading of renewable naphtha. (Basis: cumulative increase, offsets, toxics)	Y	
BAAQMD Condition 27543			
Part 1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Section E Solids Handling

Table IV - E.1
Source-specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – E.2
Source-specific Applicable Requirements
Deleted. Sources Demolished

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – E.3
Source-specific Applicable Requirements
S821 - Fluid Coke Storage Pile

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	Report periods of parametric monitor inoperation	Y	
1-523.2	Limits on periods of parametric monitor inoperation	Y	
1-523.3	Report exceedances	N	
1-523.4	Recordkeeping	Y	
1-523.5	Maintenance and calibration; written policy	Y	
SIP Regulation 1	General Provisions and Definitions (SIP Approved) (06/28/1999)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Report exceedances	Y	
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	

Table IV – E.3
Source-specific Applicable Requirements

S821 - Fluid Coke Storage Pile

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Condition 19528			
Part 14	Monitoring (Basis: Regulation 2-1-403; Regulation 2-6-503)	Y	

Table IV – E.4
Source-specific Applicable Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS) Cooling Tower,
S976 - No. 5 Gas Plant Cooling Tower,
S978 - Foul Water Stripper Cooling Tower,
S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.2	Total Suspended Particulate Concentration Limits	N	
6-1-311.2	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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 2	Organic Compounds – Miscellaneous Operations (05/04/2022)		
8-2-114	Exemption, Miscellaneous Plants	Y	
BAAQMD Regulation 11 Rule 10	Hazardous Pollutants – Hexavalent Chromium Emissions from All Cooling Towers and Total Hydrocarbon Emissions from Refinery Cooling Towers (11/03/2021)		
11-10-104	Limited Exemption, Continuous Hydrocarbon Analyzers	N	
11-10-301	Hexavalent Chromium: Do not operate a cooling tower that uses hexavalent chromium chemicals	N	
11-10-304	Total Hydrocarbon Leak Monitoring Requirements	N	

Table IV – E.4
Source-specific Applicable Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS) Cooling Tower,
S976 - No. 5 Gas Plant Cooling Tower,
S978 - Foul Water Stripper Cooling Tower,
S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
11-10-305	Leak Action Requirement –if leak detection methods find total hydrocarbon concentrations greater than the applicable leak action level in 11-10-204, the owner/operator shall minimize the leak as soon as practicable or within 7 calendar days, whichever is sooner, and conduct a leak repair and/or remove the defective piece of equipment from service within 21 calendar days of first detecting the leak. Any delay in completion of the leak repair beyond 21 days must meet the criteria cited in 40 C.F.R. 63.654(f)-(g). Owner/operator shall speciate and quantify TAC emissions associated with the leak within 72 hours using water sampling.	N	
11-10-401	Refinery Cooling Tower Reporting Requirements: When the sampling of cooling tower water exceeds the applicable leak action level, the cooling tower owner/operator shall perform the specified actions	N	
11-10-504	Operating records – retain records of the results of all sampling and/or monitoring conducted and other required data for at least five years from the date of entry; if requesting exemption, must maintain records to prove exemption	N	
11-10-602	Total Hydrocarbon Analyzer Location	N	
11-10-603	Cooling Tower Water Lab Analysis Methodology	N	
11-10-604	Cooling Tower Water Sampling Methodology	N	
40 CFR 63 Subpart FFFF	NESHAPS for Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2435	Am I subject to the requirements in this subpart?	Y	
63.2435(a)	You are subject to this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at a major source of HAP.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	The miscellaneous organic chemical manufacturing affected source includes heat exchange systems that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2445	When do I have to comply with this subpart?	Y	

Table IV – E.4
Source-specific Applicable Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS) Cooling Tower,
S976 - No. 5 Gas Plant Cooling Tower,
S978 - Foul Water Stripper Cooling Tower,
S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(g)	All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with 63.2445(g)(1 – 7) upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2445(g)(6)	For heat exchange systems, comply the requirements specified in §§63.2490(d), 63.2520(e)(16), and 63.2525(r).	Y	
63.2490	Heat exchange systems	Y	
63.2490(a)	Heat exchange systems – comply with Table 10 of 40 CFR 63 Subpart FFFF, Except as specified in 63.2490(b) through (d).	Y	
63.2490(d)	Beginning no later than the compliance dates specified in §63.2445(g), comply with 63.2490(d)(1) – (4).	Y	
63.2490(d)(1)	Perform monitoring to identify leaks of total strippable hydrocarbons from each heat exchange system	Y	
63.2490(d)(1)(i)	Heat exchange systems - monitoring locations for closed-loop recirculation heat exchange systems:	Y	
63.2490(d)(1)(i)(A)	-Collect and analyze a sample from each cooling tower return line.	Y	
63.2490(d)(1)(i)(B)	-Selected heat exchanger exit line(s) so that each heat exchanger or group of exchangers within a system is covered.	Y	
63.2490(d)(1)(iii)(A)	Heat exchange systems – Monitoring method: Determine total strippable hydrocarbon concentration in ppmv as methane using the Modified El Paso Method	Y	
63.2490(d)(1)(iii)(B)	Heat exchange systems – Monitoring method: Convert total strippable hydrocarbons concentration to mass emissions rate.	Y	
63.2490(d)(1)(iv)	Heat exchange systems – Monitoring frequency and leak action levels. Comply with the monitoring frequency in 63.2490(d)(1)(iv). Leak action level is the strippable hydrocarbon concentration (as methane) in stripping gas of 6.2 ppmv, or for heat exchange systems with a recirculation rate of 10,000 gal/min or less, total hydrocarbon mass emissions rate from the heat exchange system (as methane) of 0.18 kg/hr.	Y	

Table IV – E.4
Source-specific Applicable Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS) Cooling Tower,
S976 - No. 5 Gas Plant Cooling Tower,
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S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2490(d)(1)(v)	Heat exchange systems – leak definition	Y	
63.2490(d)(1)(v)(B)	Heat exchange systems – leak definition for closed-loop recirculation heat exchange systems: A leak is detected if a measurement value of the sample taken from a location equals or exceeds the leak action level.	Y	
63.2490(d)(2)	If a leak is detected per 63.2490(d)(1), repair the leak to reduce the concentration or mass emissions rate to below the applicable leak action level as soon as practicable, but no later than 45 days after identifying the leak. Additional monitoring is allowed in accordance with 63.2490(d)(3). Delay of repair is allowed in accordance with 63.2490(d)(4). Actions that can be taken to repair include but are not limited to:	Y	
63.2490(d)(2)(i)	Physical modifications to the leaking heat exchanger	Y	
63.2490(d)(2)(ii)	Blocking the leaking tube within the heat exchanger	Y	
63.2490(d)(2)(iii)	Changing the pressure so that water flows into the process fluid	Y	
63.2490(d)(2)(iv)	Replacing the heat exchanger or heat exchanger bundle	Y	
63.2490(d)(2)(v)	Isolating, bypassing, or otherwise removing the leaking heat exchanger from service until repaired	Y	
63.2490(d)(3)	Heat exchange systems - Additional monitoring upon leak detection	Y	
63.2490(d)(4)	Heat exchange systems –Delay of repair for heat exchange system leaks	Y	
63.2520	Reporting requirements	Y	
63.2520(a)	Reporting requirements – submit notification of compliance status report and compliance report as directed in Table 11 of Subpart FFFF.	Y	
63.2520(b)	Reporting requirements – compliance report timing	Y	
63.2520(d)	Reporting requirements-	Y	
63.2520(d)(1)	Reporting requirements - Notice of compliance status report submittal requirements – submit NOCS within 150 days of compliance dates in 63.2445.	Y	
63.2520(d)(2)	Reporting requirements-Notice of compliance status report requirements - contents	Y	

Table IV – E.4
Source-specific Applicable Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS) Cooling Tower,
S976 - No. 5 Gas Plant Cooling Tower,
S978 - Foul Water Stripper Cooling Tower,
S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)	Reporting requirements - compliance report submittal requirements and contents	Y	
63.2520(e)(16)	Reporting requirements - compliance report submittal requirements and contents for heat exchange systems	Y	
63.2525	Recordkeeping requirements	Y	
63.2525(r)	Recordkeeping requirements – requirements for heat exchange systems	Y	
63.2525(t)	Recordkeeping requirements – requirements for records submitted electronically via EPA’s CEDRI may be maintained in an electronic format.	Y	
BAAQMD Condition 19199	Section E – Applies to S982 only		
Part E1	S982 Water recirculation rate limits (Basis: cumulative increase, offsets, BACT)	Y	
Part E3	S982 Total dissolved solids content limit limits (Basis: cumulative increase, offsets)	Y	
Part E4	S982 Quarterly analysis: total dissolved solids (Basis: cumulative increase, offsets)	Y	
Part E5	S982 POC concentration limit and test method (Basis: BACT)	Y	
Part E6	S982 Weekly POC analysis (basis BACT)	Y	
Part E7	S982 District shall approve sample point (Basis: BACT)	Y	
Part E8	S982 Record keeping (Basis: cumulative increase, offsets, BACT)	Y	
BAAQMD Condition 27587			
Part 7 (S846 only)	S846 Water recirculation rate limits (Basis: cumulative increase)	Y	
Part 8 (S976 only)	S976 Water recirculation rate limits (Basis: cumulative increase)		
Part 9 (S978 only)	S978 Water recirculation rate limits (Basis: cumulative increase)	Y	

Table IV – E.4
Source-specific Applicable Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS) Cooling Tower,
S976 - No. 5 Gas Plant Cooling Tower,
S978 - Foul Water Stripper Cooling Tower,
S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit (formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10 (S980 only)	S980 Water recirculation rate limits (Basis: cumulative increase)	Y	
Part 11 (S985 only)	S985 Water recirculation rate limits (Basis: cumulative increase)	Y	

Table IV – E.5
Source-specific Applicable Requirements

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – E.6
Source-specific Applicable Requirements

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – E.7
Source-specific Applicable Requirements

[Deleted. Source(s) Removed From Service]

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

Section F.1: Tanks – Source Listing and Applicable Permit Conditions

**Table IV – F.1
 Source-specific Applicable Requirements**

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
3	Tank A-03	102B	None		
26	Tank A-26, White Gasoline	204A	None		
33	Tank A-33, White Gasoline	204A	None		
134	Tank A-134, Light Green, Recovered Oil	404C	20923-1	Throughput limit (Basis: cumulative increase)	Y
			20923-2	Materials allowed for storage (Basis: cumulative increase)	Y
			20923-3	Requirement for abatement (Basis: cumulative increase)	Y
			20923-4	Record keeping (Basis: cumulative increase)	Y
			21053-6	Monitoring requirements for control device (Basis: 60.113b(c)(2))	Y
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			26910-1	Control Requirements (Basis: Cumulative Increase)	Y
			26910-2	Continuously monitor and record pressure (Basis: Cumulative Increase, Regulation 2-5-110)	Y
			26910-3	Monitoring for leaks (Basis: Regulation 8-5-307)	Y
26910-4	Recordkeeping (Basis: Cumulative Increase, Regulation 2-5-110, Recordkeeping)	Y			

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
			26910-5	Operate at all times with best operating practice (Basis: Cumulative Increase, Regulation 2-5-110, Recordkeeping)	Y
			26910-6	Deinventory, clean, and remove from service no later than December 31, 2023.	Y
137	Tank A-137, Light Green Recovered Oil	404D	10984-1	Requirement for abatement (Basis: cumulative increase)	Y
			10984-2	Throughput limit (Basis: cumulative increase)	Y
			10984-3	Materials allowed for storage (Basis: cumulative increase)	Y
			10984-4	Record keeping (Basis: cumulative increase)	Y
			21053-6	Monitoring requirements for control device (Basis: 60.113b(c)(2))	Y
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			26910-1	Control Requirements (Basis: Cumulative Increase)	Y
			26910-2	Continuously monitor and record pressure (Basis: Cumulative Increase, Regulation 2-5-110)	Y
			26910-3	Monitoring for leaks (Basis: Regulation 8-5-307)	Y
			26910-4	Recordkeeping (Basis: Cumulative Increase, Regulation 2-5-110, Recordkeeping)	Y
			26910-5	Operate at all times with best operating practice (Basis: Cumulative Increase, Regulation 2-5-110, Recordkeeping)	Y
26910-6	Deinventory, clean, and remove from service no later than December 31, 2023.	Y			

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
217	Tank A-217, White Gasoline	204B	None		
258	Tank A-258	102B	None		
270	Tank A-270	102B	None		
272	Tank A-272	102B	None		
274	Tank A-274	102B	None		
323	Tank A-323, White Slop Oil	403A	8077-B8C	Abatement requirement	Y
			13605-1	S323 throughput limit	Y
			13605-2	S323 material stored	Y
			13605-3	S323 abatement requirements	Y
			13605-4	S323 source test	Y
			13605-5	S323 recordkeeping	Y
			21053-3	S323 source test	Y
			21053-6	Monitoring requirements for control device (Basis: 60.113b(c)(2))	Y
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device.(Basis: Regulation 2-2-208 Cumulative Increase)	Y
27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y			
429	Tank A-429	102C	None		
494	Tank A-494	102B	None		
514	Tank A-514, LPG Sphere	501	None		
515	Tank A-515, LPG Sphere	501	None		

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
516	Tank A-516, LPG Sphere	501	None		
517	Tank A-517, Renewable Feedstock	102A	None		
554	Tank A-554, LPG Sphere	501	None		
572	Tank A-572, LPG Sphere	501	None		
585	Tank A-585	102B	None		
598	Tank A-598, Renewable NaphthaSphere	502	None		
599	Tank A-599, LPG Sphere	501	None		
601	Tank A-601, Black Recovered Oil	302	27587-2	Throughput limit (Basis: cumulative increase)	Y
			27587-17	Record keeping (Basis: cumulative increase)	Y
603	Tank A-603, Black Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank	404B	21053-6	Monitoring requirements for control device (Basis: 63.646(a), 63.120(d)(5))	Y
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
604	Tank A-604	102B	None		
612	Tank A-612 White Ethyl Alcohol	301	6740-3	Throughput limit (Basis: cumulative increase, toxics)	Y
			6740-4	Material to be stored (Basis: cumulative increase, toxics)	Y

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
			6740-5	Record keeping (cumulative increase, toxics)	Y
613	Tank A-613, Vapor Storage Tank	502	27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
618	Tank A-618 LPG Sphere	501	None		
620	Tank A-620, Renewable Feedstock	102A	None		
621	Tank A-621, Intermediate HDO Product	202C	27597-1	Throughput limit (Basis: Cumulative Increase)	Y
			27597-2	Maximum true vapor pressure (Basis: Cumulative Increase, Regulation 8-5)	Y
			27597-3	Materials allowed for storage (Basis: cumulative increase)	Y
			27597-4	Record keeping (Basis: Cumulative Increase, toxics, Regulation 8-5)	Y
			27597-5	Vapor pressure testing (Basis: Cumulative Increase, Regulation 8-5)	Y
622	Tank A-622, Light grey, Renewable Diesel	102A	None		
637	Tank A-637, White Naphtha	204A	None		

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
638	Tank A-638, White Naphtha, Gas Oil, Gasoline	204A	None		
639	Tank A-639, White Naphtha	204A	None		
640	Tank A-640, White Distillate Oil, Gasoline	204A	None		
641	Tank A-641, White Distillate Oil, Gasoline	204A	None		
646	Tank A-646, Renewable Propane Bullet	502	None		
647	Tank A-647, Renewable Propane Bullet	502	None		
648	Tank A-648, Renewable Propane Bullet	502	None		
649	Tank A-649, Renewable Propane Bullet	502	None		
650	Tank A-650 Sour Waste Water	202D	27587-3	Throughput limit (Basis: cumulative increase)	Y
			27587-17	Record keeping (Basis: cumulative increase)	Y
651	Tank A-651 Oil/Water Mixture	202A	27603-1	Throughput limit (Basis: cumulative increase)	Y
			27603-2	Vapor pressure limit (Basis: cumulative increase, Regulation 8-5)	Y
			27603-3	Requirements for Alternative Material Storage (Basis: cumulative increase, toxics)	Y
			27603-4	Record keeping (Basis: cumulative increase, toxics)	Y

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
652	Tank A-652, Renewable Naphtha Sphere	502	None		
656	Tank A-846, Foul Water Stripper Charge Tank, Refinery Sour Waste Water	403D	10696-1	Requirement for abatement by A-12	Y
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
658	Tank A-847, Foul Water Stripper Charge Tank, Refinery Sour Waste Water	403D	10696-1	Requirement for abatement by A-12	Y
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
664	Tank A-664, White Gasoline	204A	None		
666	Tank A-666, Renewable Propane Bullet	502	None		

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
667	Tank A-667, Renewable Propane Bullet	502	None		
668	Tank A-668, Renewable Propane Bullet	502	None		
669	Tank A-669, Renewable Propane Bullet	502	None		
670	Tank A-670, Renewable Propane Bullet	502	None		
690	Tank A-690, White Crude Oil	203A	27424-1	Throughput and vapor pressure limit (Basis: cumulative increase)	Y
			27424-2	POC Emissions Limit (Basis: cumulative increase, toxics, offsets)	Y
			27424-3	Record keeping (cumulative increase, toxics)	Y
691	Tank A-691	501	None		
692	Tank A-692, White Gasoline, Renewable Naphtha	202B	27587-4	Throughput limit (Basis: cumulative increase)	Y
			27587-17	Record keeping (Basis: cumulative increase)	Y
694	Tank A-694, White Crude Oil	203A	None		
695	Tank A-695, Renewable Naphtha Sphere	502	None		
696	Tank A-696, White Gasoline	303A	None		
699	Tank A-699, White, API Separator Recovered Oil, A-14 Vapor Recovery	403B	27587-5	Throughput limit (Basis: cumulative increase)	Y
			27587-17	Record keeping (Basis: cumulative increase)	Y

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
701	Tank A-701, White Crude Oil	203A	None		
702	Tank A-702, White Gasoline	204A	None		
705	Tank A-705, Light Green Crude Oil	203B	None		
706	Tank 113-A-706, Blue Crude Oil	203B	None		
707	Tank 113-A-707, Medium grey Crude Oil, Hydrocarbon	203B	None		
708	Tank 113-A-708, Blue Crude Oil	203B	None		
709	Tank 113-A-709, Green Crude Oil, Waste Oil	203B	None		
710	Tank A-710, Green Alkylate, Gasoline	204B	None		
711	Tank 80-A-711, Green Crude Oil, Gasoline	204B	None		
714	Tank A-714, White Organic Liquid – other/not Spec, Hydrocarbon	404A	8538-1	Requirement for abatement (Basis: cumulative increase)	Y
			8538-2	A14 abatement requirement	Y
			8538-3	Materials to be stored	Y
			8538-4	True vapor pressure limit	Y
			8538-5	Throughput limit	Y
			8538-6	Recordkeeping	Y

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
			27543-1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-5	A1584 Shall equip with a continuous temperature measuring and recording device.(Basis: Regulation 2-2-208 Cumulative Increase)	Y
			27543-11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y
771	Tank 2-A-713, White DEA (Alcohol, Amine)	102C	None		
775	Tank A-849 Gasoline	303B	19762-A1	Throughput limit (Basis: cumulative increase, toxics, offsets)	Y
			19762-A2	True vapor pressure limitation (Basis: BACT, Regulation 8-5, cumulative increase, toxics, offsets)	Y
			19762-A5	Requirements for storage of materials other than gasoline (Basis: cumulative increase, toxics, offsets)	Y
			19762-A6	Record keeping (Basis: cumulative increase, toxics, offsets)	Y
871	Tank A-871 Crude, Low Sulfur Vacuum Gas Oil	203C	21393-1	Throughput limit (Basis: cumulative increase, toxic risk screen, BACT)	Y
			21393-2	Materials to be stored (Basis: Cumulative increase, toxic risk screen)	Y
			21393-4	Records and reporting (Basis: cumulative increase, reg 1-441, Reg 8-5-501)	Y
872	Tank A-872	102B	None		
873	Tank A-895, Renewable Feedstock	102A	None		
896		203D	23263-1	Throughput limit (Basis: cumulative increase)	Y

Table IV – F.1
Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	Tank A-896, Off-white, Slop oil		23263-2	Materials to be stored (Basis: Cumulative increase, toxics, Offsets)	Y
			23263-3	Records and reporting (Basis: cumulative increase, Toxics)	Y
			23263-4	Construction design requirements for fittings and roof penetrations (Basis: BACT)	Y
			26910-6	Deinventory, clean, and remove from service no later than December 31, 2023.	Y
1461	Tank A-866, White Crude Oil	203C	17477-A1	Throughput Limit (Basis: cumulative increase, toxics)	Y
			17477-A2	True Vapor Pressure Limit (Basis: cumulative increase)	Y
			17477-A5	Requirements for Alternative Material Storage (Basis: cumulative increase, toxics)	Y
			17477-A6	Record keeping (Basis: cumulative increase, toxics)	Y
1463	Tank A-867, Silver Renewable Feedstock	102A	17477-C1	Throughput Limit (Basis: cumulative increase, toxics)	Y
			17477-C2	True Vapor Pressure Limit (Basis: cumulative increase)	Y
			17477-C5	Requirements for Alternative Material Storage (Basis: cumulative increase, toxics)	Y
			17477-C6	Record keeping (Basis: cumulative increase, toxics)	Y
1464	Tank A-868, Off White Diesel, Renewable Diesel	201	17477-D1	Throughput Limit (Basis: cumulative increase, toxics)	Y
			17477-D2	True Vapor Pressure Limit (Basis: cumulative increase)	Y
			17477-D4	Requirements for Alternative Material Storage (Basis: cumulative increase, toxics)	Y
			17477-D5	Record keeping (Basis: cumulative increase, toxics)	Y
1465	Tank A-869, Off-white Diesel, Renewable Diesel	201	17477-E1	Throughput Limit (Basis: cumulative increase, toxics)	Y
			17477-E2	True Vapor Pressure Limit (Basis: cumulative increase)	Y
			17477-E4	Requirements for Alternative Material Storage (Basis: cumulative increase, toxics)	Y
			17477-E5	Record keeping (Basis: cumulative increase, toxics)	Y
1468	Tank A-877 Spent Sulfidic Caustic	102A	None		
1473			19197-1	Abatement at all times (Basis: cumulative increase)	Y

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Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	Storage Tank Ethyl Mercaptan Odorant	502	19197-2	Throughput limit (Basis: cumulative increase)	Y
			19197-7	Throughput records (Basis: cumulative increase)	Y
1485	Tank A-870 Gasoline Blending Components	303B	20520-1	Throughput limit (Basis: cumulative increase)	Y
			20520-2	Vapor pressure limits (Basis: cumulative increase, toxics, offsets)	Y
			20520-5	Material to be stored (Basis: cumulative increase, toxics, offsets)	Y
			20520-6	Record keeping and reporting	Y
1489	Fixed Volume Portable Tank #1, White, Slop Oil and Water Mixture	402	21536-1	Throughput limit for S1489 (Basis: cumulative increase, toxic risk screen)	Y
			21536-2	Throughput limit for S1490 (Basis: cumulative increase, toxic risk screen)	Y
			21536-3	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (Basis: cumulative increase, toxic risk screen).	Y
			21536-4	Materials to be stored (Basis: cumulative increase, toxic risk screen)	Y
			21536-5	Monitoring (Basis: cumulative increase, toxic risk screen)	Y
			21536-6	Monitoring log, frequency of change-out (Basis: cumulative increase, toxic risk screen)	Y
			21536-7	Vessel breakthrough of first carbon vessel (Basis: cumulative increase, toxic risk screen)	Y
			21536-8	Last carbon vessel changeout (Basis: cumulative increase, toxic risk screen)	Y
			21536-9	Exceedance reporting (Basis: cumulative increase, toxic risk screen)	Y
			21536-10	Record keeping and reporting (Basis: cumulative increase, recordkeeping)	Y
1490	Fixed Volume Portable Tank #2, White, Slop Oil	402	21536-1	Throughput limit for S1489 (Basis: cumulative increase, toxic risk screen)	Y
			21536-2	Throughput limit for S1490 (Basis: cumulative increase, toxic risk screen)	Y

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Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
	and Water Mixture		21536-3	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (Basis: cumulative increase, toxic risk screen).	Y
			21536-4	Materials to be stored (Basis: cumulative increase, toxic risk screen)	Y
			21536-5	Monitoring (Basis: cumulative increase, toxic risk screen)	Y
			21536-6	Monitoring log, frequency of change-out (Basis: cumulative increase, toxic risk screen)	Y
			21536-7	Vessel breakthrough of first carbon vessel (Basis: cumulative increase, toxic risk screen)	Y
			21536-8	Last carbon vessel changeout(Basis: cumulative increase, toxic risk screen)	Y
			21536-9	Exceedance reporting (Basis: cumulative increase, toxic risk screen)	Y
			21536-10	Record keeping and reporting (Basis: cumulative increase, recordkeeping)	Y
1491	Fixed Volume Portable Tank #3, White, Slop Oil and Water Mixture	402	21535-1	Throughput limit (Basis: cumulative increase, toxic risk screen)	Y
			21535-2	Abatement at all times with an overall collection and adsorption efficiency of at least 95% by weight POC (Basis: cumulative increase, toxic risk screen).	Y
			21535-3	Materials to be stored (Basis: cumulative increase, toxic risk screen)	Y
			21535-4	Monitoring (Basis: cumulative increase, toxic risk screen)	Y
			21535-5	Monitoring log, frequency of change-out (Basis: cumulative increase, toxic risk screen)	Y
			21535-6	Vessel breakthrough of first carbon vessel (Basis: cumulative increase, toxic risk screen)	Y
			21535-7	Last carbon vessel changeout (Basis: cumulative increase, toxic risk screen)	Y
			21535-8	Exceedance reporting (Basis: cumulative increase, toxic risk screen)	Y
			21535-9	Record keeping and reporting (Basis: cumulative increase, recordkeeping)	Y
1505	Tank A-777	101A	None		

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Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
1506	Tank A-893 Gasoline, Gasoline Blending Stock	204C	22640-1	Throughput Limit (Basis: cumulative increase, toxics, BACT)	Y
			22640-2	True Vapor Pressure Limit (Basis: cumulative increase, toxics)	Y
			22640-4	Record keeping (Basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)	Y
1507	Tank A-894 Gasoline, Gasoline Blending Stock	204C	22640-1	Throughput Limit (Basis: cumulative increase, toxics, BACT)	Y
			22640-2	True Vapor Pressure Limit (Basis: cumulative increase, toxics)	Y
			22640-4	Record keeping (Basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501)	Y
1521	Tank A-904	204C	23739-1	Throughput Limit (Basis: Cumulative Increase, Toxics)	Y
			23739-2	True Vapor Pressure Limit (Basis: Cumulative Increase, Toxics)	Y
			23739-3	Recordkeeping Requirements (Basis: Cumulative Increase, Toxics)	Y
1549	Tank 890	102D	24649-1	Throughput Limit (Basis: Cumulative Increase)	Y
			24649-1a	Operational Flexibility with POC, NPOC, Toxic Emissions Limit (Basis: Cumulative Increase, Toxics Regulation 2-5-110)	
			24649-2	Recordkeeping Requirements (Basis: Cumulative Increase, Regulation 2-5-110)	Y
1554	Tank A-943 Renewable Feedstock	102A	None		
1564	Tank A-938 Avon Wharf Berth 1A Recovered Oil Tank	403C	26408-1	Throughput Limit (Basis: Cumulative Increase, Offsets)	Y
			26408-2	Operational Flexibility with Vapor Pressure, POC, Toxic Emissions Limit (Basis: Cumulative Increase, Toxics)	Y
			26408-3	Recordkeeping Requirements (Basis: Cumulative Increase, Toxics)	Y
1567	Avon Berth 1A East Diesel Tank	102B	None		
1568	Avon Berth 1A West Diesel Tank	102B	None		

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Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
1601	T-895 Aqueous Ammonia Tank	101B	None		
2002	Tank TK-1048, Antifoam Tank	101B	None		
2004	Tank TK-845, Sodium Hypochlorite Tank	101B	None		
2005	Tank MTK-10162, Demulsifier Tank	102A	None		
2006	Tank TK-958, Fresh Caustic Tank	101B	None		
2007	Tank A-905, R99 Renewable Diesel Storage Tank	102A	None		
2008	Tank A-933, R99 Renewable Diesel Storage Tank	102A	None		
2011	Tank A-981, Fossil Diesel Storage Tank	102A	None		
2012	Tank A-961, Fossil Diesel Storage Tank	102A	None		
2014	Sodium Sulfide Tank No. 1	101B	None		
2015	Sodium Sulfide Tank No. 2	101B	None		
2016	T-796 Neutralization Tank	102A	None		
2017	T-797 Neutralization Tank	102A	None		

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Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
2018	Tank TK-1036, Sulfuric Acid Tank	101B	None		
2019	Tank TK-10193, Coagulant Tank	101B	None		
2022	Tank TK-10198, Urea Storage Tank	101B	None		
2023	Tank TK-1044, Polymer Storage Tank	102A	27598-1	Throughput Limit (Basis: Cumulative Increase)	Y
			27598-2	True Vapor Pressure Limit (Basis: Cumulative Increase, Regulation 8-5)	Y
			27598-3	Operational Flexibility with POC, NPOC and Toxic Emissions Limit (Basis: Cumulative Increase, Toxics)	Y
			27598-4	Recordkeeping Requirements (Basis: Cumulative Increase, Toxics)	Y
2024	Tank TK-1035, Phosphoric Acid Tank	101B	None		
2026	Tank NV-406, Weak Acid Storage Tank	101B	None		
2028	Tank A-932, R99 Renewable Diesel Storage Tank	102A	None		
32120	Tank A-529, Sour Water	100	None		
32121	Tank A-530, Sour Water	100	None		
32122	Tank A-543, Fresh Caustic	100	None		
32123	Tank A-673, Fresh Caustic	100	None		
32124	Tank A-674, Sulfuric Acid,	100	None		
32125	Tank A-747, Sulfuric Acid	100	None		

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Source-specific Applicable Requirements

Tanks – Source Listing and Applicable Permit Conditions

S-#	Description	Group	BAAQMD Cond #	Condition Description	FE
32126	Tank A-770, MDEA	100	None		
32127	Tank A-754, Sulfuric Acid	100	None		
32128	Tank A-754, Sulfuric Acid	100	None		
32129	Tank A-755, Sulfuric Acid	100	None		
32130	Tank A-905, Diesel	100	None		
32131	Tank A-932, Diesel	100	None		
32132	Tank A-933, Diesel	100	None		
32133	Tank A-980, Sulfuric Acid	100	None		
32134	Tank A-982, Biodiesel (B100)	100	None		
32135	Tank A-983, Biodiesel (B100)	100	None		
B54	Amorco Wharf Slop Tank	401	None		

Section F.2: Tanks – Groups And Group Descriptions

**Table IV – F.2
 Source-specific Applicable Requirements**

Tanks – Groups and Group Descriptions

Tank Group	Tank Type	Group Description	Sources
100	Non-Regulated	Permitted Tanks with no Applicable Regulations	S32120 through S32135
101	8-5 Exempt	8-5 Exempt (Content or Size)	This group includes sources from 101A and 101B
101A	8-5 Exempt	8-5 Exempt (Size), MACT EEEE	S1505
101B	8-5 Exempt	8-5 Exempt (Content), MACT FFFF Exempt (Content)	S1601, S2002, S2004, S2006, S2014, S2015, S2018, S2019, S2022, S2024, S2026
102	8-5-117 Limited Exemption	8-5-117 Limited Exemption (Low Vapor Pressure)	This group includes sources from 102A, 102B, and 102C
102A	8-5-117 Limited Exemption	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, MACT FFFF Exempt (Content)	S517, S620, S622, S873, S1463, S1468, S1554, S2005, S2007, S2008, S2011, S2012, S2016, S2017, S2023, S2028
102B	8-5-117 Limited Exemption	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, Non-MACT (Content)	S3, S270, S272, S274, S258, S494, S585, S604, S872, S1567, S1568
102C	8-5-117 Limited Exemption	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, MACT EEEE (EFR)	S429, S771
102D	8-5-117 Limited Exemption	8-5-117 Limited Exempt (Low Vapor Pressure), Non-NSPS, MACT EEEE (No control required)	S1549
201	8-5-304 EFR	NSPS Kb, MACT FFFF Exempt EFR	S1464, S1465
202	8-5-304 EFR	MACT FFFF	This group includes sources from 202A, 202B, and 202C
202A	8-5-304 EFR	Non-NSPS, MACT FFFF Group 1 or 2 Wastewater Tank EFR	S651
202B	8-5-304 EFR	Non-NSPS, MACT FFFF Group 1 Storage Tank EFR	S692
202C	8-5-304 EFR	NSPS Kb, MACT FFFF Group 1 Storage Tank EFR Overlap 63.2535(c)	S621
202D	8-5-304 EFR	NSPS Kb, MACT FFFF Group 1 or 2 Wastewater Tank EFR	S650
203	8-5-304 EFR	MACT EEEE	This group includes sources from 203A, 203B, 203C, and 203D

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Source-specific Applicable Requirements
Tanks – Groups and Group Descriptions

Tank Group	Tank Type	Group Description	Sources
203A	8-5-304 EFR	Non-NSPS MACT EEEE EFR	S690, S694, S701
203B	8-5-304 EFR	NSPS Ka, MACT EEEE EFR	S705, S706, S707, S708, S709
203C	8-5-304 EFR	NSPS Kb, MACT EEEE EFR Overlap 63.2396(a)(1)	S871, S1461
203D	8-5-304 EFR	NSPS Kb, MACT EEEE EFR Overlap 63.2396(a)(1), BWON 61 Subpart FF	S896
204	8-5-304 EFR	MACT R	This group includes sources from 204A, 204B, and 204C
204A	8-5-304 EFR	Non-NSPS MACT R EFR	S26, S33, S217, S637, S638, S639, S640, S641, S664, S702
204B	8-5-304 EFR	NSPS Ka, MACT R EFR	S710, S711
204C	8-5-304 EFR	NSPS Kb, MACT R EFR Overlap 63.420(g)	S1506, S1507, S1521
301	8-5-305 IFR	Non-NSPS, Non-MACT (Content) IFR	S612
302	8-5-305 IFR	NSPS Kb, MACT FFFF Group 1 IFR Overlap 63.2535(c), BWON 61 Subpart FF	S601
303	8-5-305 IFR	MACT R	This group includes sources from 303A and 303B
303A	8-5-305 IFR	Non-NSPS, MACT R IFR	S696
303B	8-5-305 IFR	NSPS Kb, MACT R IFR Overlap 63.420(g)	S775, S1485
401	8-5-302 Fixed Roof	MACT and NSPS Kb Exempt (size), BWON 61 Subpart FF (Uncontrolled wastestream), Submerged Fill - Side Fill, no Pressure Vacuum Vent	B54
402	8-5-302 Fixed Roof	Non-NSPS, Abated by Carbon. Can be used in BWON 61 Subpart FF service.	S1489, S1490, S1491 (Portable tanks used for temporary hazardous waste management)
403	8-5-302 Fixed Roof	MACT FFFF	This group includes sources from 403A, 403B, 403C, and 403D
403A	8-5-302 Fixed Roof	Non-NSPS, MACT FFFF Group 1 Storage Tank (Abated by Vapor Recovery System)	S323
403B	8-5-302 Fixed Roof	Non-NSPS, MACT FFFF Group 1 Storage Tank (Abated by Vapor Recovery System), BWON 61 Subpart FF	S699
403C	8-5-302 Fixed Roof	Non-NSPS, MACT FFFF Group 2 Storage Tank, BWON 61 Subpart FF	S1564

Table IV – F.2
Source-specific Applicable Requirements

Tanks – Groups and Group Descriptions

Tank Group	Tank Type	Group Description	Sources
403D	8-5-302 Fixed Roof	NSPS Kb, MACT FFFF Group 1 or 2 Wastewater Tank Overlap 63.2535(c) (Abated by Vapor Recovery System)	S656, S658
404	8-5-302 Fixed Roof	MACT EEEE	This group includes sources from 404A, 404B, and 404C
404A	8-5-302 Fixed Roof	Non-NSPS, MACT EEEE (Abated by Vapor Recovery System)	S714
404B	8-5-302 Fixed Roof	Non-NSPS, MACT EEEE (Abated by Vapor Recovery System), BWON 61 Subpart FF	S603
404C	8-5-302 Fixed Roof	NSPS Kb, MACT EEEE (Abated by Vapor Recovery System), BWON 61 Subpart FF	S134, S137
501	8-5-307 Pressure Tank	Non-MACT (Pressure Tanks)	S514, S515, S516, S554, S572, S599, S618, S691
502	8-5-307 Pressure Tank	MACT FFFF Exempt (Pressure Tanks)	S598, S613, S646, S647, S648, S649, S652, S666, S667, S668, S669, S670, S695, S1473

NOTE: SOURCES WITH A "B" INSTEAD OF "S" ARE FOR FACILITY B2759.

Section F.3: Tanks – Tank Group Applicable Requirements

**Table IV – F.3
 Source-specific Applicable Requirements**

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
BAAQMD Regulation 8 Rule 5	Organic Compounds - Storage of Organic Liquids (11/03/2021)																	
8-5-100	General	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-101	Description	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-110	Exemptions	Y																
8-5-110.1	Exemptions; Tanks < 264 gallons	Y	A															
8-5-110.2	Exemptions; Tanks installed before 1/4/67	Y																
8-5-110.3	Exemptions; Above ground gasoline tanks < 2,008 gallons	Y																
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X

Table IV – F.3
Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks	Y			X	X	X	X	X	X	X							
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use vapor recovery during filling and emptying on tanks so equipped	Y												X	X		X	X
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	N			X	X	X	X	X	X	X	X	X	X	X		X	X

Table IV – F.3
Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-112.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.1.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.1.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.5	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period	N			X	X	X	X	X	X	X	X	X	X	X		X	X

**Table IV – F.3
 Source-specific Applicable Requirements**

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-112.6	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.6.1	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.6.2	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.6.3	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.6.4	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-117	Limited Exemption, Low Vapor Pressure	N		X	X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-118	Limited Exemption, Gas Tight Requirements	N												X	X			X
8-5-119	Limited Exemption, Repair Period - Optional	N			X	X	X	X	X	X	X	X	X	X	X		X	X

Table IV – F.3
Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-119.1	Limited Exemption, Repair Period - Optional	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-119.2	Limited Exemption, Repair Period - Optional	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-119.3	Limited Exemption, Repair Period - Optional	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-301	Storage Tank Control Requirements	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-302	Requirements for Submerged Fill Pipes	Y											X					
8-5-302.1	Requirements for Submerged Fill Pipes; Top fill	Y											X					
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y											X					
8-5-303	Requirements for Pressure Vacuum Valves	N										X	X	X	X			X
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	N										X	X	X	X			X

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-303.2	Requirements for Pressure Vacuum Valves; Gas tight requirement or abatement	N										X	X	X	X			X
8-5-304	Requirements for External Floating Roof Tanks	N			X	X	X	X										
8-5-304.1	Requirements for External Floating Roofs; Tank fittings	Y			X	X	X	X										
8-5-304.2	Requirements for External Floating Roofs; Primary seal (8-5-321)	Y			X	X	X	X										
8-5-304.3	Requirements for External Floating Roofs; Secondary seal (8-5-322)	Y			X	X	X	X										
8-5-304.4	Requirements for External Floating Roofs; Floating roof	N			X	X	X	X										
8-5-304.5	Requirements for External Floating Roofs; Tank shell	N			X	X	X	X										
8-5-304.6	Requirements for External Floating Roofs; Pontoons – no leaks	N			X	X	X	X										
8-5-304.6.1	Requirements for External Floating Roofs; Pontoons – make gas tight if leaking	N			X	X	X	X										

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-304.6.2	Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service	N			X	X	X	X										
8-5-305	Requirements for Internal Floating roofs	N							X	X	X							
8-5-305.1	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y																
8-5-305.1.1	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y																
8-5-305.1.2	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y																
8-5-305.1.3	Requirements for Internal Floating roofs; Seals installed before 2/1/93	Y																
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y							X	X	X							
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y							X	X	X							
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y							X	X	X							

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	N							X	X	X							
8-5-305.6	Requirements for Internal Floating roofs; Tank shell	N							X	X	X							
8-5-306	Requirements for Approved Emission Control Systems	N										X	X	A	X			
8-5-306.1	Requirements for Approved Emission Control Systems: Abatement efficiency $\geq 95\%$	N										X	X	A	X			
8-5-306.2	Requirements for Approved Emission Control Systems: It must be gas tight	N										X	X	A	X			
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N										X	X	X	X		X	X
8-5-307.1	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: no liquid leakage through shell	N										X	X	X	X		X	X
8-5-307.2	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tank working pressure	N															X	X
8-5-307.3	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks: Pressure tanks and blanketed tanks PRD requirements	N		X													X	X

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-320	Floating Roof Tank Fitting Requirements	N			X	X	X	X	X	X	X							
8-5-320.2	Floating Roof Tank Fitting Requirements; Projection below liquid surface	N			X	X	X	X	X	X	X							
8-5-320.3	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids	N			X	X	X	X	X	X	X							
8-5-320.3.1	Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements	Y			X	X	X	X	X	X	X							
8-5-320.3.2	Floating Roof Tank Fitting Requirements; Internal floating roof inaccessible opening requirements	Y							X	X	X							
8-5-320.4	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells -	Y			X	X	X	X										
8-5-320.4.1	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells - projection below liquid surface	Y			X	X	X	X										
8-5-320.4.2	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells - cover, seal, or lid	Y			X	X	X	X										

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-320.4.3	Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells - total secondary seal gap must include well gap	Y			X	X	X	X										
8-5-320.5	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells	N			X	X	X	X	X	X	X							
8-5-320.5.1	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells - projection below liquid surface	Y			X	X	X	X	X	X	X							
8-5-320.5.2	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells - cover, gasket, pole sleeve, pole wiper for EFR wells	N			X	X	X	X	X	X	X							
8-5-320.5.3	Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells- total secondary seal gap must include well gap	Y			X	X	X	X	X	X	X							
8-5-320.6	Floating Roof Tank Fitting Requirements; Emergency roof drain requirements	Y																
8-5-321	Primary Seal Requirements	N			X	X	X	X	X	X	X							
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y			X	X	X	X	X	X	X							

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
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			X	X	X	X	X	X	X							
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	N			X	X	X	X	X	X	X							
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements - geometry of shoe	Y			X	X	X	X	X	X	X							
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements - welded tanks	Y			X	X	X	X	X	X	X							
8-5-321.3.3	Primary Seal Requirements; Metallic-shoe-type seal requirements - riveted tanks	Y			X			X	X	X	X							
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	N							X	X	X							
8-5-322	Secondary Seal Requirements	N			X	X	X	X	X	X	X							
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y			X	X	X	X	X	X	X							
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y			X	X	X	X	X	X	X							

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y																
8-5-322.4	Secondary seal requirements; Riveted tanks seal requirements	Y			X	X	X	X	X	X	X							
8-5-322.5	Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985	Y			X	X	X	X	X	X	X							
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y			X	X	X	X	X	X	X							
8-5-328	Tank Degassing Requirements	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-328.3	Tank Degassing Requirements; BAAQMD notification required	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X

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 Source-specific Applicable Requirements**

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-331	Tank Cleaning Requirements	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-331.1	Tank Cleaning Requirements; Cleaning material properties	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-331.2	Tank Cleaning Requirements; Steam cleaning prohibition	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-331.3	Tank Cleaning Requirements; Steam cleaning exceptions	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-401	Inspection Requirements for External Floating Roof Tanks	N			X	X	X	X										
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	N			X	X	X	X										
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	N			X	X	X	X										
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N							X	X	X							
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y							X	X	X							

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	N							X	X	X							
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	N							X	X	X							
8-5-403	Inspection Requirements for Pressure Relief Devices	N										X	X	X	X	X	X	X
8-5-403.1	Inspection Requirements for Pressure Relief Devices; pressure vacuum valves	N										X	X	X	X	X		
8-5-403.2	Inspection Requirements for Pressure Relief Devices; PRDs except pressure vacuum valves	N										X	X	X	X	X	X	X
8-5-404	Inspection, Abatement Efficiency Determination, and Source Test Reports	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-411	Enhanced Monitoring Program (Optional)	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-411.3	Enhanced Monitoring Program (Optional); Performance requirements	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-412	Monitoring of Leaking Pontoons	N			X	X	X	X										

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-501	Records	N			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y			X	X	X	X	X	X	X	X	X	X	X	X	X	X
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y			X	X	X	X	X	X	X							
8-5-501.3	Records; Retention	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-501.4	Records; New PV setpoints	N										X	X	X	X		X	X
8-5-502	Source Test Requirements and exemption for sources vented to fuel gas	N										X		A	X		X	X
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												A	X		X	X
8-5-502.2	Source Test Requirements; 12-month source test for approved emission control systems and abatement devices for 8-5-328.1 or 331.	N			X	X	X	X	X	X	X	X	X	A	X		X	X

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-601	Analysis of Samples, Reid Vapor Pressure	Y																
8-5-602	Analysis of Samples, True Vapor Pressure	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-603	Determination of Abatement Efficiency	N										X			X		X	X
8-5-604	Determination of Applicability Based on True Vapor Pressure	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-605	Measurement of Leak Concentration and Residual Concentrations	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-605.1	Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-605.2	Measurement of Leak Concentration and Residual Concentrations; Test Methods	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-606	Analysis of Samples, Tank Cleaning Agents	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-606.1	Analysis of Samples, Tank Cleaning Agents; IBP	N			X	X	X	X	X	X	X	X	X	X	X		X	X

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-606.2	Analysis of Samples, Tank Cleaning Agents; TVP	N			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-606.3	Analysis of Samples, Tank Cleaning Agents; VOC	N			X	X	X	X	X	X	X	X	X	X	X		X	X
SIP Regulation 8 Rule 5	Organic Compounds - Storage of Organic Liquids (06/05/2003)																	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112	Limited Exemption, Tanks in Operation	Y			X	X	X	X	X	X	X	X	X	X	X		X	X

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	Y																
8-5-117	Exemption, Low Vapor Pressure	Y		X	X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-301	Storage Tank Control Requirements	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-303	Requirements for Pressure Vacuum Valves	Y										X	X	X	X			X
8-5-303.1	Requirements for Pressure Vacuum Valves	Y										X	X	X	X			X
8-5-303.2	Requirements for Pressure Vacuum Valves	Y										X	X	X	X			X
8-5-304	Requirements for External Floating Roofs; Floating roof requirements	Y			X	X	X	X										

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y			X	X	X	X										
8-5-305	Requirements for Internal Floating roofs	Y							X	X	X							
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y							X	X	X							
8-5-306	Requirements for Approved Emission Control Systems	Y										X	X	A	X			X
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y		X													X	
8-5-320	Tank Fitting Requirements	Y			X	X	X	X	X	X	X							
8-5-320.2	Tank Fitting Requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y			X	X	X	X	X	X	X							
8-5-320.3	Tank Fitting Requirements; Gasketed covers, seals, lids	Y			X	X	X	X	X	X	X							

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-320.5	Tank Fitting Requirements; Slotted sampling or gauging wells	Y			X	X	X	X	X	X	X							
8-5-320.5.2	Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells	Y			X	X	X	X	X	X	X							
8-5-321	Primary Seal Requirements	Y			X	X	X	X	X	X	X							
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y			X	X	X	X	X	X	X							
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal gap requirements	Y							X	X	X							
8-5-322	Secondary Seal Requirements	Y			X	X	X	X	X	X	X							
8-5-328	Tank degassing requirements	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-328.1.1	Tank degassing requirements; Liquid Balancing	Y																

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-328.1.2	Tank degassing requirements; Concentration of <10,000 ppm as methane after degassing	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-401	Inspection Requirements for External Floating Roof Tanks				X	X	X	X										
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y			X	X	X	X										
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y			X	X	X	X										
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y							X	X	X							
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y							X	X	X							
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y							X	X	X							
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y										X	X	X	X			X
8-5-404	Certification	Y			X	X	X	X	X	X	X	X	X	X	X		X	X

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
8-5-405	Report	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-405.1	Information required	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-405.2	Information required	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-405.3	Information required	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-501	Records	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-503	Portable Hydrocarbon Detector	Y			X	X	X	X	X	X	X	X	X	X	X		X	X
8-5-603	Determination of Emissions	Y										X	X	X	X			X
8-5-603.1	Determination of Emissions; Method to test emission control system (8-5-306)	Y										X	X	A	X			X
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	Y										X	X	X	X		X	X

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
BAAQMD Regulation 10	Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000)																	
10-16	Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After June 11, 1973 and Prior to May 19, 1978	Y					B	B										
10-17	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	Y			X	C	C	C		X	B			D	C			
BAAQMD Regulation 11, Rule 12	Hazardous Pollutants - National Emission Standard for Benzene Emissions From Benzene Transfer Operations and Benzene Waste Operations (Adopted 07/18/1990; Subpart FF last amended 01/05/1994)	Y					D			X		X	X	B	B			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
40 CFR 60 Subpart Ka	NSPS – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After June 11, 1973 and Prior to May 19, 1978																	
60.110a(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels ≥ to 40,000 gallons, after 5/18/1978	Y					B	B										
40 CFR 60 Subpart Kb	NSPS – Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction, or Modification Commence After May 18, 1978, and Prior to July 23, 1984																	
60.110b	Applicability and Designation of Affected Facility	Y			X	C	C	C		X	B			D	C	X		
60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels ≥ to 75 cu m, after 7/23/1984	Y			X	C	C	C		X	B			D	C	X		

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.110b(b)	Applicability and Designation of Affected Facility – Exemption for low vapor pressure; NSPS Kb does not apply to vessels with capacity > 151 cu m and TVP < 3.5 kPa or to vessels with capacity ≥ 75 cu m and ≤ 151 cu m and TVP < 15.0 kPa.	Y			X	C	C	C		X	B			D	C	X		
60.110b(d)	This subpart does not apply to the following:	Y																
60.110b(d)(2)	Pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere.	Y																
60.110b(d)(4)	Vessels with a design capacity less than or equal to 1,589.874 m3 used for petroleum or condensate stored, processed, or treated prior to custody transfer.	Y																
60.110b(d)(8)	Vessels subject to subpart GGGG of 40 CFR part 63.	Y																
60.112b	Standard for Volatile Organic Compounds (VOC)	Y			X	C	C	C		X	B			D	C	X		

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks - > 151 cu m with maximum TVP ≥ 5.2 kPa and < 76.6; or ≥ 75 cu m and < 151 cu m with maximum TVP ≥ 27.6 kPa and < 76.6 kPa	Y			X	C	C	C		X	B			D	C	X		
60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y								X	B							
60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y								X	B							
60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y								X	B							
60.112b(a)(1)(ii)(A)	A foam-or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam-or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the	Y								X	B							
60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y								X	B							

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Source-specific Applicable Requirements**

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.112b(a)(1)(ii)(C)	A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope)	Y								X	B							
60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y								X	B							
60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y								X	B							
60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y								X	B							
60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y								X	B							
60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y								X	B							
60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y								X	B							

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y								X	B							
60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y			X	C	C	C										
60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y			X	C	C	C										
60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y			X	C	C	C										
60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y			X	C	C	C										
60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y			X	C	C	C										
60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y			X	C	C	C										
60.112b(a)(3)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device	Y												D	C			
60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y												D	C			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device ≥ 95% inlet VOC emission reduction.	Y												D	C			
60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for tanks ≥ 75 cu m and maximum TVP ≥ 76.6 kPa	Y																
60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option	Y												D	C			
60.112b(b)(2)	A system equivalent to that described in paragraph (b)(1) as provided in §60.114b of this subpart.	Y																
60.113b	Testing and Procedures	Y			X	C	C	C		X	B			D	C	X		
60.113b(a)	Testing and Procedures; Internal floating roof	Y								X	B							
60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y								X	B							
60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y								X	B							

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.113b(a)(3)	For vessels equipped with a double-seal system as specified in §60.112b(a)(1)(ii)(B):	Y								X	B							
60.113b(a)(3)(i)	Visually inspect the vessel as specified in paragraph (a)(4) of this section at least every 5 years; or	Y								X	B							
60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y								X	B							
60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed – at least every 10 years	Y								X	B							
60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y								X	B							
60.113b(b)	Testing and Procedures; External floating roof	Y			X	C	C	C										
60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y			X	C	C	C										
60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y			X	C	C	C										
60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y			X	C	C	C										

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y			X	C	C	C										
60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y			X	C	C	C										
60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y			X	C	C	C										
60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y			X	C	C	C										
60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y			X	C	C	C										
60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y			X	C	C	C										
60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y			X	C	C	C										
60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y			X	C	C	C										
60.113b(b)(4)(i) (A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y			X	C	C	C										

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y			X	C	C	C										
60.113b(b)(4)(ii)	Testing and Procedures; External floating roof secondary seal	Y			X	C	C	C										
60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y			X	C	C	C										
60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y			X	C	C	C										
60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y			X	C	C	C										
60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y			X	C	C	C										
60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y			X	C	C	C										
60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y			X	C	C	C										
60.113b(b)(6)(i)	Testing and Procedures; External floating roof - roof or seal defect repairs	Y			X	C	C	C										

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y			X	C	C	C										
60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y												D	C	X		
60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y												D	C	X		
60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan - efficiency demonstration	Y												D	C	X		
60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan - monitoring parameters	Y												D	C	X		
60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y												D	C	X		
60.115b	Recordkeeping and Reporting Requirements	Y			X	C	C	C		X	B			D	C	X		
60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y								X	B							

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y								X	B							
60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y								X	B							
60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y								X	B							
60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y								X	B							
60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y			X	C	C	C										
60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y			X	C	C	C										
60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y			X	C	C	C										

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report - date of measurement	Y			X	C	C	C										
60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report - raw data	Y			X	C	C	C										
60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report - calculations	Y			X	C	C	C										
60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y			X	C	C	C										
60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records - date of measurement	Y			X	C	C	C										
60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records - raw data	Y			X	C	C	C										

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records - calculations	Y			X	C	C	C										
60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y			X	C	C	C										
60.115b(c)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare)	Y												D	C			
60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y												D	C			
60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y												D	C			
60.116b	Monitoring of Operations	Y			X	C	C	C		X	B			D	C			
60.116b(a)	Monitoring of Operations; Record retention	Y			X	C	C	C		X	B			D	C			

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.116b(b)	Monitoring of Operations; Permanent record requirements	Y			X	C	C	C		X	B			D	C			
60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y			X	C	C	C		X	B			D	C			
60.116b(d)	Monitoring of Operations; Notify within 30 days when the maximum TVP is exceeded	Y			X	C	C	C		X	B			D	C			
60.116b(e)	Monitoring of Operations; Maximum true vapor pressure (TVP)	Y			X	C	C	C		X	B			D	C			
60.116b(e)(1)	Monitoring of Operations; TVP Determination Criteria	Y			X	C	C	C		X	B			D	C			
60.116b(e)(2)	Monitoring of Operations; TVP Determination Criteria, Crude Oil	Y			X	C	C	C		X	B			D	C			
60.116b(e)(2)(i)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products by API method	Y			X	C	C	C		X	B			D	C			
60.116b(e)(2)(ii)	Monitoring of Operations; Determine TVP-crude oil or refined petroleum products other than API method	Y			X	C	C	C		X	B			D	C			
60.116b(e)(3)	Monitoring of Operations; Determine TVP	Y			X	C	C	C		X	B			D	C			

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y			X	C	C	C		X	B			D	C			
60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y			X	C	C	C		X	B			D	C			
60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y			X	C	C	C		X	B			D	C			
60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y			X	C	C	C		X	B			D	C			
60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y			X	C	C	C		X	B			D	C			
60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y			X	C	C	C		X	B			D	C			
60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y			X	C	C	C		X	B			D	C			
60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y			X	C	C	C		X	B			D	C			
60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y			X	C	C	C		X	B			D	C			

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Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y			X	C	C	C		X	B			D	C			
60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y			X	C	C	C		X	B			D	C			
40 CFR 61 Subpart FF	NESHAPS – Benzene Waste Operations (12/04/2003)																	
61.340	Applicability	Y					D			X		X	X	B	B			
61.340(a)	Applicability: Petroleum Refineries	Y					D			X		X	X	B	B			
61.340(d)	Exemption: gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system are exempt from Subpart FF	Y										X						
61.342(c)(1)	Standards: General; For 61.342(e) 6BQ facility, treat non-aqueous benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y										X						

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with 61.348	Y										X						
61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for waste management units that manage wastes prior to and during treatment per 61.342(c)(1)(i)	Y										X						
61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for waste management units for wastes to be recycled. After recycling, wastes no longer subject to 61.342(c)(1)	Y										X						
61.342(e)	Standards: General; Compliance option - Treat to 6 or 6BQ Option	Y											X					
61.342(e)(1)	Standards: General; Requirements for Treat to 6 (6BQ) facility; Treat non-aqueous waste (flow-weighted annual average water content of less than 10%) per 61.342(c)(1)	Y										X						
61.342(e)(2)	Standards: General; Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option;	Y											X					

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Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
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											X					
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											X					
61.343	Standards: Tanks	Y										X		B	B			
61.343(a)	Standards: Tanks; Benzene-containing wastes, comply with (a)(1) or (a)(2)	Y										X		B	B			
61.343(a)(1)	The owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device.	Y										X		B	B			
61.343(a)(1)(i)(A)	Standards: Tanks - -No detectable emissions >/= 500 ppmv; annual inspection	Y										X		B	B			
61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof - No openings	Y										X		B	B			
61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems and control device are subject to 61.349	Y										X		B	B			

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Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y										X		B	B			
61.343(d)	Standards: Tanks; Fixed roof repairs	Y										X		B	B			
61.349	Standards: Closed-Vent Systems and Control Devices	Y										X		B	B			
61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y										X		B	B			
61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems - -No detectable emissions ≥ 500 ppmv; annual inspection	Y												B	B			
61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y										X		B	B			
61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y										X		B	B			
61.349(a)(1)(iv)	Safety valve provisions	Y										X		B	B			
61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y												B	B			

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.349(b)	Operated at all times.	Y												B	B			
61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y												B	B			
61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration - Administrator-specified methods	Y												B	B			
61.349(f)	Visually inspect for leaks quarterly	Y										X		B	B			
61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y										X		B	B			
61.349(h)	Monitor per 61.354(c)	Y												B	B			
61.351	Alternative Standards for Tanks	Y					D			X								
61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 60.112b(a)(1)	Y								X								

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 60.112b(a)(2)	Y					D											
61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y					D			X								
61.354	Monitoring of Operations	Y										X		B	B			
61.354(c)	Monitoring of Operations; Closed-vent systems and control devices - Continuously monitor control device operation	Y										X		B	B			
61.354(d)	Monitoring of Operations; Closed-vent systems and control devices - Non-regenerate carbon adsorption system requirements	Y												B	B			
61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y										X		B	B			
61.355	Test methods, procedures, and compliance provisions	Y										X		B	B			
61.355(h)	Test methods, procedures, and compliance provisions; NDE inspection (Method 21)	Y										X		B	B			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.355(i)	Test methods, procedures, and compliance provisions; demonstrate compliance of control device with 61.349(a)(2) with performance test	Y												B	B			
61.356	Recordkeeping Requirements	Y					D			X		X		B	B			
61.356(a)	Recordkeeping requirements; records and retention	Y										X		B	B			
61.356(f)	Recordkeeping Requirements: Closed vent system and control device – life retention records	Y												B	B			
61.356(f)(3)	Recordkeeping Requirements: Closed vent system and control device – life retention records – Performance tests	Y												B	B			
61.356(g)	Recordkeeping requirements; visual inspections for 61.343 through 61.347	Y										X		B	B			
61.356(h)	Recordkeeping Requirements: NDE test results	Y										X		B	B			
61.356(j)	Recordkeeping Requirements: Closed vent system and control device operating records	Y										X		B	B			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.356(j)(1)	Recordkeeping Requirements: Control device – startup and shutdown dates	Y												B	B			
61.356(j)(2)	Recordkeeping Requirements: Control device – operating parameter	Y												B	B			
61.356(j)(3)	Recordkeeping Requirements: Control device – periods when not operated as designed	Y										X		B	B			
61.356(j)(3)(i)	Recordkeeping Requirements: Control device – periods and duration when any valve car-seal required under 61.349(a)(1)(ii) is broken or the bypass line valve position has changed.	Y										X		B	B			
61.356(j)(9)	Recordkeeping Requirements: Control device – If a carbon adsorber is used, maintain records from monitoring device of concentration of organics or concentration of benzene in control device outlet gas stream. Other recordkeeping requirements	Y												B	B			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.356(j)(10)	Recordkeeping Requirements: Control device – If a carbon adsorber that is not regenerated directly on site in the control device is used, then maintain records of dates and times when the control device is monitored, when breakthrough is measured, and the dates and times of carbon replacement.	Y												B	B			
61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 60.115b	Y					D			X								
61.357	Reporting Requirements	Y					D			X		X						
61.357(d)	Reporting Requirements: Required report submittals	Y										X		BC	B			
61.357(d)(6)	Reporting requirements: Quarterly certification of inspections	Y										X		BC	B			
61.357(d)(7)	Reporting Requirements: Quarterly reports	Y												BC	B			
61.357(d)(7)(iv)	Reporting Requirements: Quarterly reports; control device information	Y												B	B			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
61.357(d)(7)(iv)(D)	Reporting Requirements: Quarterly reports; control device information – Carbon emission exceedances	Y												B	B			
61.357(d)(7)(iv)(I)	Reporting Requirements: Quarterly reports; control device information – Carbon not replaced when required	Y												B	B			
61.357(d)(8)	Reporting Requirements: Annual report – summary of NDE inspections and required repairs	Y										X		BC	B			
61.357(e)	Reporting Requirements: Notification required for election to comply with 61.351 or 61.352 alternative standards.	Y					D			X								
61.357(f)	Reporting Requirements: 61.351 control equipment must comply with 60.115b	Y					D			X								
40 CFR 63 Subpart R	NESHAPS for Source Categories: National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/04/2020)							X			X							
63.420	Applicability	Y						X			X							
63.423	Standards: Storage Vessels	Y						X			X							

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.423(a)	Standards: Storage Vessels: Each storage vessel with a design capacity $\geq 75\text{m}^3$ shall meet the requirements of 40 CFR 60.112b(a)(1) through (4), except §§60.112b(a)(1) (iv) through (ix) and 60.112b(a)(2)(ii).	Y					X				X							
63.425	Test methods and procedures	Y					X				X							
63.425(d)	Test methods and procedures: Each storage vessel subject to 40 CFR 63.423 shall comply with 40 CFR 60.113b.	Y					X				X							
63.427	Continuous monitoring	Y					X				X							
63.427(c)	Continuous monitoring: Each storage vessel subject to 40 CFR 63.423 shall comply with 40 CFR 60.116b, except records shall be kept for at least 5 years.	Y					X				X							
63.428	Reporting and recordkeeping	Y					X				X							

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.428(c)	Reporting and recordkeeping: Each storage vessel subject to 40 CFR 63.423 shall keep records and furnish reports as specified in 40 CFR 60.115b, except records shall be kept for at least 5 years.	Y						X			X							
40 CFR 63 Subpart WW	NESHAPS for Source Categories: National Emission Standards for Storage Vessels (Tanks)— Control Level 2 Requirements for Tanks subject to 40 CFR 63 Subparts EEEE and FFFF (07/12/2002)																	
63.1060	Applicability: These requirements apply to storage tanks subject to control requirements under 40 CFR Part 63 Subparts EEEE and FFFF, and achieve compliance with those subparts by meeting the floating roof storage tank requirements of Subpart WW.	Y		C		X	X			X								
63.1063	Standards: Floating Roof Storage Tanks	Y		C		X	X			X								
63.1063(a)(1)(i)	Floating roof rim seal standards for internal floating roof storage tanks.	Y								X								

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.1063(a)(1)(ii)	Floating roof rim seal standards for external floating roof storage tanks.	Y		C		X	X											
63.1063(a)(2)	Floating roof rim seal standards for both internal and external floating roof tanks.	Y		C		X	X			X								
63.1063(b)	Operational requirements for all floating roof storage tanks.	Y		C		X	X			X								
63.1063(c)(1)	Internal floating roof tank inspection frequency standards.	Y								X								
63.1063(c)(2)	External floating roof tank inspection and seal gap measurement frequency standards.	Y		C		X	X											
63.1063(d)(1)	Complete inspection procedure requirements for all floating roof tanks when emptied and degassed.	Y		C		X	X			X								
63.1063(d)(2)	Visual inspection procedure for internal floating roof visual inspection from openings in the fixed roof.	Y								X								
63.1063(d)(3)	Seal gap measurement procedures for external floating roof tank.	Y		C		X	X											
63.1063(e)	Repair requirements for deficiencies identified during inspections of floating roof storage tanks.	Y		C		X	X			X								

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.1065	Recordkeeping requirements	Y		C		X	X			X								
63.1065(a)	Maintain records of all storage tanks' dimensions, capacity, and stored liquid(s).	Y		C		X	X			X								
63.1065(b)	Maintain records of all storage tank inspections.	Y		C		X	X			X								
63.1065(c)	Maintain records of all floating roof landing and refloating events.	Y		C		X	X			X								
63.1065(d)	Maintain records of all delay-of-repair extensions utilized.	Y		C		X	X			X								
63.1066(a)	Submit notification of initial startup of a tank.	Y		C		X	X			X								
63.1066(b)(1)	Submit notification at least 30 days prior to conducting seal gap measurements or an emptied and degassed complete inspection. If extenuating circumstances arise such that the inspection could not have been known 30 days in advance, notification shall be made at least 7 days prior to inspection.	Y		C		X	X			X								

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.1066(b)(2)	Submit a copy of inspection records that identify deficiencies.	Y		C		X	X			X								
63.1066(b)(3)	Submit documentation of delay-of-repair allowances utilized for a particular tank.	Y		C		X	X			X								
40 CFR 63 Subpart EEEE	NESHAPS for Source Categories: National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) (07/07/2020)																	
63.2338	Applicable equipment	Y	A	C			X								X			
63.2338(b)(1)	Applicable equipment: all storage tanks storing "organic liquids" as defined within 40 CFR 63.2406.	Y		C			X								X			
63.2343(a)	Documentation: No control for storage tanks less than 5,000 gallons	Y	A															
63.2343(b)	Documentation: No control for storage tanks more than 5,000 gallons			D														
63.2346(a)	Standards: Storage tanks	Y		C			X								X			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2346(a)(1)	Standards: Storage tanks: Route emissions to a control device meeting the requirements in Table 2 or 2b to Subpart EEEE, and comply with paragraph (I) of this section and the applicable requirements specified in 40 CFR Part 63, subpart SS.	Y													X			
63.2346(a)(2)	Standards: Storage tanks: Route emissions to fuel gas systems or back into a process as specified in subpart SS of this part. If you comply with this paragraph, then you must also comply with the requirements specified in paragraph (I) of this section.	Y													X			
63.2346(a)(3)	Standards: Storage tanks: Comply with 40 CFR part 63, subpart WW (control level 2).	Y		C			X								X			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2346(a)(6)	Standards: Storage tanks: Beginning no later than July 7, 2023, during storage tank shutdown operations (i.e., emptying and degassing of a storage tank) you must comply with paragraphs (a)(6)(i) through (iii) until the vapor space concentration in the tank is less than 10 percent of the lower explosive limit (LEL). Determine the LEL using process instrumentation or portable measurement devices and follow procedures for calibration and maintenance according to manufacturer's specifications.	Y		C			X								X			
63.2346(a)(6)(i)	Standards: Storage tanks: During tank emptying and degassing, remove organic liquids from the storage tank as much as practicable.	Y		C			X								X			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2346(a)(6)(ii)	Standards: Storage tanks: During tank emptying and degassing, route emissions through a closed-vent system to a control device capable of reducing total organic HAP by 95 weight percent or to an exhaust concentration of less than 20 ppmv corrected to 3% Oxygen for combustion devices using supplemental air, or route the emissions to a fuel gas system or other process.	Y		C			X								X			
63.2346(a)(6)(iii)	Standards: Storage tanks: During tank emptying and degassing, comply with the general duty to minimize emissions from as specified within 40 CFR 63.2350(d). Maintain records necessary to demonstrate the general duty standard was met including, if appropriate, records of procedures used to empty and degas equipment.	Y		C			X								X			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2346(k)	Standards: Storage tanks: Beginning no later than July 7, 2023, for each storage tank vented through a closed vent system to a flare you must comply with the requirements specified in §63.2380 instead of the requirements in §63.987 and the provisions regarding flare compliance assessments at §63.997(a), (b), and (c).	Y		C			X								X			
63.2346(l)	Standards: Storage tanks: Startup, shutdown, and malfunction: Beginning no later than July 7, 2023, the allowance for non-compliance during startup, shutdown, and malfunction specified within 40 CFR Part 63 subpart SS are no longer applicable.	Y		C			X								X			
63.2378	Continuous compliance demonstrations	Y		C			X								X			
63.2378(c)	Continuous compliance demonstrations: Except as specified in paragraph (e) of this section, periods of planned routine maintenance of a control device used to control storage tanks, during which the control device does not meet the relevant emission standards, must not exceed 240 hours per year.	Y		C			X								X			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2378(e)	Continuous compliance demonstrations: Beginning no later than July 7, 2023, §63.2378(c) no longer applies. Instead, you must be in compliance with each emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section at all times, except during periods of nonoperation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies and must comply with the requirements specified in paragraphs (e)(1) through (5) of this section, as applicable.	Y		C			X								X			
63.2378(e)(1)	Continuous compliance demonstrations: Except as specified in paragraphs (e)(3) through (5), bypassing a control device is a deviation from the emission standards of Subpart EEEE.	Y		C			X								X			

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 Source-specific Applicable Requirements**

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2378(e)(3)	Continuous compliance demonstrations: Periods of planned routine maintenance of a control device during which the control device is bypassed or does not meet the requirements of Subpart EEEE, must not exceed 240 hours per year. The level of material in the storage vessel shall not be increased during this time.	Y		C			X								X			
63.2382(a)	Submit notifications required by 63.2382 and Table 12 to Subpart EEEE.	Y		C			X								X			
63.2386(c-d)	Submit initial and subsequent compliance reports containing the required information relevant to storage tanks.	Y		C			X								X			
63.2396(a)(1)	Overlapping requirements with 40 CFR Part 60 Subpart Kb, floating roof tanks: Any floating roof storage tanks subject to and in compliance with the provisions of 40 CFR Part 60 Subpart Kb are also in compliance with 40 CFR Part 63 Subpart EEEE, except that records shall be kept for 5 years rather than 2 years.	Y					C								C			

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE	Y	N	101	AB	102	ABCD	201	202	ABCD	203	ABCD	204	ABC	301	302	303	AB	401	402	403	ABCD	404	ABC	405	(Reserved)	501	502
		Y	N																										
63.2396(a)(2)	Overlapping requirements with 40 CFR Part 60 Subpart Kb, closed-vent system and control device tanks: Any fixed roof storage tanks routed by a closed-vent system to a control device that are subject to and in compliance with the provisions of 40 CFR Part 60 Subpart Kb are also in compliance with 40 CFR Part 63 Subpart EEEE, except that the monitoring, recordkeeping, and reporting requirements from Subpart EEEE shall be met.	Y										C												C					
63.2396(a)(3)	Overlapping requirements with 40 CFR Part 60 Subpart Kb: Any tanks subject to the provisions of 40 CFR Part 60 Subpart Kb may elect to only comply with the provisions of 40 CFR Part 63 Subpart EEEE.	Y										C												C					
40 CFR 63 Subpart FFFF	NESHAPS for Source Categories: National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (08/12/2020)																												
63.2435	Applicable equipment	Y								X							X						X						

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Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2435(b)	Applicable equipment: all storage tanks assigned to a miscellaneous organic chemical manufacturing process unit (MCPU).	Y				X				X				X				
63.2470(a)	Standards: Storage tanks: You must meet each emission limit in Table 4 to this subpart that applies to your storage tanks, and except as specified in paragraph (b) of this section, you must also meet each applicable requirement specified in paragraphs (c) through (f) of this section and §§63.2492 and 63.2493(a) through (c).	Y				X				X				A				

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2470(c)(1)	Standards: Storage tanks: Exceptions to Subpart SS: Except as specified in paragraph (c)(4)(ii) of this section, if you conduct a performance test or design evaluation for a control device used to control emissions only from storage tanks, you must establish operating limits, conduct monitoring, and keep records using the same procedures as required in subpart SS of this part for control devices used to reduce emissions from process vents instead of the procedures specified in §§63.985(c), 63.998(d)(2)(i), and 63.999(b)(2). You must also comply with the requirements in §63.2450(e)(4), as applicable.	Y												A				

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 Source-specific Applicable Requirements**

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2470(d)	Standards: Storage tanks: Planned Routine Maintenance: The emission limits in Table 4 to Subpart FFFF do not apply during periods of planned routine maintenance up to 240 hours per year. The Administrator may approve a written application to increase this time period to 360 hours per year. This application must be submitted at least 60 days before the 240 hour per year limit will be exceeded.	Y				X				X				A				
63.2470(f)	Standards: Storage tanks: Beginning no later than August 12, 2023, during storage tank shutdown operations (i.e., emptying and degassing of a storage tank) you must comply with paragraphs (f)(1) through (3) until the vapor space concentration in the tank is less than 10 percent of the lower explosive limit (LEL). Determine the LEL using process instrumentation or portable measurement devices and follow procedures for calibration and maintenance according to manufacturer's specifications.	Y				X				X				A				

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2470(f)(1)	Standards: Storage tanks: During tank emptying and degassing, remove organic liquids from the storage tank as much as practicable.	Y				X				X				A				
63.2470(f)(2)	Standards: Storage tanks: During tank emptying and degassing, route emissions through a closed-vent system to a flare, a control device capable of reducing total organic HAP by 95 weight percent, or to a fuel gas system or process that meets the requirements of 63.982(d) and 63.2450(e)(4).	Y				X				X				A				
63.2470(f)(3)	Standards: Storage tanks: During tank emptying and degassing, comply with the general duty to minimize emissions from as specified within 40 CFR 63.2450(u). Maintain records necessary to demonstrate the general duty standard was met including, if appropriate, records of procedures used to empty and degas equipment.	Y				X				X				A				
63.2525(a)	Maintain records required by 40 Part 63, Subparts SS and WW.	Y				X				X				X				

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
63.2535(c)	Overlap with 40 CFR Part 60 Subpart Kb: Floating roof storage tanks subject to and in compliance with 40 CFR Part 60 Subpart Kb are also in compliance with the provisions of 40 CFR Part 63 Subpart FFFF. Fixed roof storage tanks routed by a closed-vent system to a control device that are subject to and in compliance with 40 CFR Part 60 Subpart Kb are also in compliance with the provisions of 40 CFR Part 63 Subpart FFFF, except that the monitoring, recordkeeping, and reporting requirements of Subpart FFFF must be met. Alternatively, a tank subject to control by Subpart FFFF may elect to comply only with the control requirements of Subpart FFFF.	Y				C				X				D				
Table 4 to Subpart FFFF, Item 1.b.i.	Standards: Floating Roof Storage Tanks: Comply with the requirements of 40 CFR Part 63 Subpart WW, except as specified in §63.2470.	Y				X				X								

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Source-specific Applicable Requirements

Tank Group Applicable Requirements

Regulation	Description	FE Y/N	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Reserved)	501	502
Table 4 to Subpart FFFF, Item 1.b.iii.	Standards: Fixed Roof Tanks with Closed-Vent System and Non-Flare Control Device: Reduce total HAP emissions by ≥ 95 percent by weight or to ≤ 20 ppmv of TOC or organic HAP and ≤ 20 ppmv of hydrogen halide and halogen HAP by venting emissions through a closed vent system to any combination of control devices (excluding a flare)	Y												A				
Table 4 to Subpart FFFF, Item 1.b.iv.	Standards: Fixed Roof Tanks with Closed-Vent System and Flare: Reduce total organic HAP emissions by venting emissions through a closed vent system to a flare	Y												A				

Section G Wastewater Sources

**Table IV – G.1
 Source-Specific Applicable Requirements**

Wastewater Components Subject to BAAQMD 8-8

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds - Wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, Applicability	N	
8-8-116	Limited Exemption, Oil-water Separation Trenches	N	
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in covers/vent pipes if total open area does not exceed 12.6 square inches and vent pipes are 3 ft long.	Y	
8-8-312	Controlled Wastewater Collection System Components at Refineries	N	
8-8-313	Uncontrolled Wastewater Collection System Components at 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 Refineries; Inspection and Maintenance Plan Option	N	
8-8-314	New Wastewater Collection System Components at Refineries; equip new components with water seal or equivalent control	N	
8-8-402	Wastewater Inspection and Maintenance Plans at Refineries	N	
8-8-402.1	Wastewater Inspection and Maintenance Plans at Refineries: ID all components and submit to BAAQMD	N	
8-8-402.2	Wastewater Inspection and Maintenance Plans at Refineries; complete initial inspection of components	N	
8-8-402.3	Wastewater Inspection and Maintenance Plans at Refineries; implement 8-8-313.2 Inspection and Maintenance Plan	N	
8-8-402.4	Wastewater Inspection and Maintenance Plans at Refineries; semi-annual inspections of controlled equipment	N	
8-8-402.5	Wastewater Inspection and Maintenance Plans at Refineries; keep records per 8-8-505	N	
8-8-502	Wastewater Critical Organic Compound Concentration or Temperature Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-505	Records for Wastewater Collection System Components at Petroleum Refineries	N	

Table IV – G.1
Source-Specific Applicable Requirements

Wastewater Components Subject to BAAQMD 8-8

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-505.1	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.2	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.3	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-505.4	Records for Wastewater Collection System Components at Petroleum Refineries	N	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds, Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-101	Description, Applicability	Y	
8-8-601	Wastewater Analysis for Critical OCs	Y	
8-8-603	Inspection Procedures	Y	

Table IV – G.2
Source-Specific Applicable Requirements

Individual Drain Systems Subject to 40 CFR 63, Subpart FFFF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61 Subpart FF	NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	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	
61.346	Standards: Individual drain systems	Y	
61.346(b)	Standards: Alternate compliance for individual drain systems	Y	
61.346(b)(3)	Standards: Alternate compliance for individual drain systems; Unburied Sewer Design	Y	
61.346(b)(4)(iv)	Standards: Alternate compliance for individual drain systems; Unburied Sewer Quarterly Visual Inspection	Y	
61.346(b)(5)	Standards: Alternate compliance for individual drain systems; Unburied Sewer Repair	Y	
40 CFR 63 Subpart FFFF	NESHAPS for Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2435	Am I subject to the requirements in this subpart?	Y	
63.2435(a)	You are subject to this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at a major source of HAP.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	The miscellaneous organic chemical manufacturing affected source includes wastewater systems that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2445	When do I have to comply with this subpart?	Y	

Table IV – G.2
Source-Specific Applicable Requirements

Individual Drain Systems Subject to 40 CFR 63, Subpart FFFF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(g)	All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with 63.2445(g)(1 – 7) upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2445(g)(6)	For wastewater streams and liquid streams in open systems within an MCPU, the requirements specified in § 63.2485(i)(2)(iii), (n)(2)(vii), (p), and (q).	Y	
63.2485	Wastewater streams and liquid streams in open systems	Y	
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	
63.2485(c)	Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(c)(1)	The total annual average concentration of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 10,000 ppmw at any flowrate, and the total annual load of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 200 lb/yr.	Y	
63.2485(c)(2)	The total annual average concentration of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flowrate is greater than or equal to 1 l/min.	Y	
63.2485(c)(3)	The combined total annual average concentration of compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 1 tpy.	Y	
63.2485(e)	Individual drain systems. The provisions of § 63.136(e)(3) apply except as specified in 63.2485(e)(1) of this section.	Y	

Table IV – G.2
Source-Specific Applicable Requirements

Individual Drain Systems Subject to 40 CFR 63, Subpart FFFF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(e)(1)	A sewer line connected to drains that are in compliance with § 63.136(e)(1) may be vented to the atmosphere, provided that the sewer line entrance to the first downstream junction box is water sealed and the sewer line vent pipe is designed as specified in § 63.136(e)(2)(ii)(A).	Y	
63.2485(h)	Alternative test methods.	Y	
63.2485(m)	When § 63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
Table 7 of 40 CFR 63 Subpart FFFF	Comply with the requirements in §§ 63.132 through 63.148 and the requirements referenced therein, except as specified in § 63.2485.	Y	
40 CFR 63 Subpart G	NESHAPS - National Emission Standards for Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/19/2020) (Drain systems are subject to requirements of Subpart G per 40 CFR 63.2485, but are not subject to Subpart G. Requirements below reflect requirements as directed by 63.2485(a) through (m).)	Y	
63.132(a)	Existing sources.	Y	
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds in tables 8 and 9 of Subpart FFFF	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §§63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(c)(2)	A wastewater stream is a Group 2 wastewater stream if it is not a Group 1 wastewater stream	Y	

Table IV – G.2
Source-Specific Applicable Requirements

Individual Drain Systems Subject to 40 CFR 63, Subpart FFFF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	
63.136(a)	For each individual drain system that receives or manages a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream, the owner or operator shall comply with the requirements of paragraphs (b), (c), and (d) or with paragraphs (e), (f), and (g) of 63.136.	Y	
63.136(e)	Compliance option for Group 1 wastewater.	Y	
63.136(e)(1)	Equip with water seal controls or a tight fitting cap or plug.	Y	
63.136(e)(1)(i)	For each drain with a water seal, ensure water seal is maintained.	Y	
63.136(e)(1)(ii)	For each drain with a water seal, extend pipe discharging wastewater below the liquid surface or install a flexible shield.	Y	
63.136(e)(2)	Each junction box shall be equipped with a tightly fitting solid cover which shall be kept in place at all times except during inspection and maintenance.	Y	
63.136(e)(3)	Each sewer line shall not be open to the atmosphere	Y	
63.136(f)	Inspections	Y	
63.136(f)(1)	Each drain using a tightly fitting cap or plug shall be visually inspected initially, and semi-annually thereafter	Y	

Table IV – G.2
Source-Specific Applicable Requirements

Individual Drain Systems Subject to 40 CFR 63, Subpart FFFF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.136(f)(2)	Each junction box shall be visually inspected initially, and semi-annually thereafter	Y	
63.136(f)(3)	The unburied portion of each sewer line shall be visually inspected initially, and semi-annually thereafter	Y	
63.136(g)	Except as provided in § 63.140 of this subpart, when a gap, hole, or crack is identified in a joint or cover, first efforts at repair shall be made no later than 5 calendar days after identification, and repair shall be completed within 15 calendar days after identification.	Y	
63.143(a)	For each wastewater tank, surface impoundment, container, individual drain system, and oil-water separator that receives, manages, or treats a Group 1 wastewater stream, a residual removed from a Group 1 wastewater stream, a recycled Group 1 wastewater stream, or a recycled residual removed from a Group 1 wastewater stream, the owner or operator shall comply with the inspection requirements specified in table 11 of this subpart.	Y	
63.143(g)	Monitoring equipment shall be installed, calibrated, and maintained according to the manufacturer's specifications or other written procedures that provide adequate assurance that the equipment would reasonably be expected to monitor accurately.	Y	
63.144	Test methods and procedures for determining applicability and Group 1/ Group 2 determinations	Y	
63.144(a)	Procedures to determine applicability	Y	
63.144(a)(1)	Determine Group 1 or 2 status in accordance with paragraphs 63.144(b) and 63.144(c)	Y	
63.144(b)	Procedures to establish concentrations based on an annual average period	Y	
63.144(b)(1)	Existing sources determine the flow weighted total annual average concentration for compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF	Y	
63.144(b)(3)	Where knowledge is used to determine the annual average concentration, the owner or operator shall provide sufficient information to document the annual average concentration	Y	
63.144(b)(5)	For each wastewater stream, measurements shall be made either at the point of determination, or downstream of the point of determination with adjustment for concentration changes made according to paragraph (b)(6) of this section. A minimum of three samples from each wastewater stream shall be taken. Samples may be grab samples or composite samples.	Y	

Table IV – G.2
Source-Specific Applicable Requirements

Individual Drain Systems Subject to 40 CFR 63, Subpart FFFF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.144(b)(5)(i)	The owner or operator shall use any of the methods specified in paragraphs 63.144(b)(5)(i)(A) through (b)(5)(i)(F).	Y	
63.144(b)(5)(iii)	The owner or operator shall validate EPA methods other than Methods 25D, 305, 624, 625, 1624, and 1625 using the procedures specified	Y	
63.144(b)(5)(iv)	Calculations of average concentration	Y	
63.144(b)(6)	Adjustment for concentrations determined downstream of the point of determination.	Y	
63.144(c)	Procedures to determine flow rate	Y	
63.144(c)(1)	The owner or operator may use knowledge of the wastewater stream and/or the process to determine the annual average flow rate.	Y	
63.144(c)(2)	The owner or operator may use historical records to determine the annual average flow rate.	Y	
63.144(c)(3)	Measurements of flow rate	Y	
63.144(c)(4)	Adjustment for flow rates determined downstream of the point of determination	Y	
63.146	Process wastewater provisions - reporting.	Y	
63.146(b)	Submit information as part of Notification of Compliance Status	Y	
63.146(b)(1)	Requirements for Group 2 wastewater streams.	Y	
63.146(b)(2)	Submit information from Table 15 of Subpart G	Y	
63.147	Process wastewater provisions - recordkeeping.	Y	
63.147(b)	Recordkeeping	Y	
63.147(b)(7)	Documentation of a decision to use a delay of repair	Y	
63.147(b)(8)	Requirements for Group 2 wastewater streams.	Y	
63.147(f)	Recordkeeping when process knowledge is used to determine wastewater is not a Group 1 stream.	Y	

Table IV – G.3
Source-Specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – G.4
Source-Specific Applicable Requirements
S532 - Oil Water Separator; Tank T-532 - 50 Unit Desalter Skim Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, Applicability	N	
8-8-301	Wastewater separators rated capacity greater than 760 Liters per Day and Smaller than 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-301.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95% by weight	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-101	Description, Applicability	Y	
8-8-301.3	An organic compound vapor recovery system with a combined collection and destruction efficiency of at least 95% by weight	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
40 CFR 61 Subpart FF	NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for controlled 6BQ wastestream [61.342(e)(1)]		

Table IV – G.4
Source-Specific Applicable Requirements

S532 - Oil Water Separator; Tank T-532 - 50 Unit Desalter Skim Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.340(d)	Exemption: Any gaseous stream from a waste management unit, treatment process, or wastewater treatment system routed to a fuel gas system, as defined in §61.341, is exempt from this subpart	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	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	
61.347	Standards: Oil-Water Separators	Y	
61.347(a)	Standards: Oil-Water Separators	Y	
61.347(a)(1)	Standards: Oil-Water Separators; fixed roof and closed-vent system vented to control device	Y	
61.347(a)(1)(i)	Standards: Oil-Water Separators; fixed roof requirements	Y	
61.347(a)(1)(i)(A)	Standards: Oil-Water Separators; fixed roof requirements – no detectable emissions	Y	
61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; fixed roof requirements – openings closed and sealed when not in use	Y	
61.347(a)(1)(ii)	Standards: Closed vent system and control device designed and operated in accordance with 61.349.	Y	
61.347(b)	Standards: Oil-Water Separators; quarterly visual inspections	Y	
61.347(c)	Standards: Oil-Water Separators; repairs and delay of repair	Y	
61.350	Standards: Delay of repair	Y	
61.350(a)	Standards: Delay of Repair: Allowed if technically impossible without complete or partial facility or unit shutdown.	Y	
61.350(b)	Standards: Delay of Repair: Repair shall occur before the end of the next facility or unit shutdown	Y	
61.354	Monitoring of operations	Y	
61.354(f)	Monitoring of operations; closed-vent system with bypass line	Y	

Table IV – G.4
Source-Specific Applicable Requirements

S532 - Oil Water Separator; Tank T-532 - 50 Unit Desalter Skim Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.354(f)(1)	Monitoring of operations; closed-vent system with bypass line – monthly inspections if car-seal OPTION used	Y	
61.354(f)(2)	Monitoring of operations; closed-vent system with bypass line – daily inspections if flow indicator OPTION is used	Y	
61.355	Test methods, procedures, and compliance provisions	Y	
61.355(h)	Test methods, procedures, and compliance provisions – no detectable emissions tests	Y	
61.355(k)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ (total benzene quantity) required by 61.342(e)(2)	Y	
61.355(k)(2)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams	Y	
61.355(k)(2)(i)	Test Methods, Procedures, and Compliance Provisions: Treat to 6 Determination of TBQ; determine benzene quantity in controlled waste streams: OPTION 1: Make determination where the waste stream enters the first uncontrolled waste management unit	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	Recordkeeping requirements; records and retention	Y	
61.356(g)	Recordkeeping requirements; visual inspections for 61.343 through 61.347	Y	
61.356(h)	Recordkeeping requirements; no detectable emissions tests	Y	
61.357	Reporting requirements	Y	
BAAQMD Condition 20099	(applies to S532 only)		
Part 1	Throughput limit (Basis: cumulative increase, toxics, BACT, offsets)	Y	
Part 3	Abatement at all times (Basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)	Y	
Part 4	Destruction efficiency of 98% (Basis: BACT)	Y	
Part 5	Startup source test requirement (Basis: BACT)	Y	
Part 6	Periodic source test requirement (Basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)	Y	
Part 7	Preventative maintenance conditions (Basis: BACT)	Y	

Table IV – G.4
Source-Specific Applicable Requirements

S532 - Oil Water Separator; Tank T-532 - 50 Unit Desalter Skim Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	Monitoring and recordkeeping of throughput (Basis: cumulative increase, toxics, offsets)	Y	
Part 9	Recordkeeping when abatement is not used (Basis: cumulative increase, toxics, offsets)	Y	
BAAQMD Condition 27543			
Part 1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Table IV – G.5
Source-Specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – G.6
Source-Specific Applicable Requirements

S699 - Tank A-699
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, Applicability	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.2	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight.	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil Water Separators) (08/29/1994)		
8-8-101	Description, Applicability	Y	
8-8-305.2	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – an organic compound vapor recovery system with combined collection and destruction efficiency of at least 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
40 CFR 61 Subpart FF	NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastewater streams [61.342(e)(2)]		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	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	

Table IV – G.6
Source-Specific Applicable Requirements

S699 - Tank A-699
API Separator Recovered Oil Tank
Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Refer to Tables IV – F.1 through F.3 for additional requirements.		
BAAQMD Condition 21053			
Part 6	Monitoring requirements for control device (Basis: 63.646(a), 63.120(d)(5))	Y	
BAAQMD Condition 27587			
Part 5	Calendar day and rolling 12 consecutive months throughput limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 17	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	
BAAQMD Condition 27543			
Part 1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

**Table IV - G.7
 Source-Specific Applicable Requirements**

**S700 - Tank A-700
 API Separator Sludge Tank**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds – wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, Applicability	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-305	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels	Y	
8-8-305.1	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – solid fixed cover. Semiannual visual inspection. No gaps > 0.125 inch in roof or between roof and wall and openings closed and gasketed except when in use	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-101	Description, Applicability	Y	
8-8-305.1	Oil-Water Separator And/Or Air Flotation Unit Slop Oil Vessels – solid fixed cover. Semiannual visual inspection. No gaps > 0.125 inch in roof or between roof and wall and openings closed and gasketed except when in use	Y	
8-8-603	Inspection Procedures	Y	
40 CFR 61 Subpart FF	NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastestream [61.342(e)(2)]		
61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
61.342(e)	Standards: General; Requirements for Treat to 6 (6BQ) facility	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	

Table IV - G.7
Source-Specific Applicable Requirements

S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart G	NESHAPs: SOCOMI for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/29/2020) (applicable as directed by 63.2485(a) and Table 7 to 40 CFR 63 Subpart FFFF)	Y	
63.132(a)	Existing sources	Y	
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §§63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(c)(2)	A wastewater stream is a Group 2 wastewater stream if it is not a Group 1 wastewater stream	Y	
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	

Table IV - G.7
Source-Specific Applicable Requirements

S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	
63.133	Process wastewater provisions - wastewater tanks. (Group 1 wastewater only)	Y	
63.133(a)	Requirements for each wastewater tank that receives, manages, or treats a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream	Y	
63,133(a)(2)	Maintain one of the listed emission control techniques.	Y	
63,133(b)	Requirements for a closed vent system to a control device.	Y	
63,133(c)	Requirements for an internal floating roof.	Y	
63,133(d)	Requirements for an external floating roof.	Y	
63,133(e)	Requirements for seal gap measurements.	Y	
63,133(f)	Requirements for inspections.	Y	
63,133(g)	Requirements for inspections for control equipment failures.	Y	
63,133(h)	Requirements for repairs.	Y	
40 CFR 63 Subpart FFFF	NESHAPS: Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2435	Am I subject to the requirements in this subpart?	Y	
63.2435(a)	You are subject to this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPUs) that are located at a major source of HAP.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	The miscellaneous organic chemical manufacturing affected source includes wastewater systems that are associated with manufacturing materials described in §63.2435(b)(1).	Y	

Table IV - G.7
Source-Specific Applicable Requirements

S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2445	When do I have to comply with this subpart?	Y	
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(g)	All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with 63.2445(g)(1 – 7) upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2445(g)(6)	For wastewater streams and liquid streams in open systems within an MCPU, the requirements specified in § 63.2485(i)(2)(iii), (n)(2)(vii), (p), and (q).	Y	
63.2485	Wastewater streams and liquid streams in open systems	Y	
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	
63.2485(c)	(c) Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(c)(1)	The total annual average concentration of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 10,000 ppmw at any flowrate, and the total annual load of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 200 lb/yr.	Y	
63.2485(c)(2)	The total annual average concentration of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flowrate is greater than or equal to 1 l/min.	Y	
63.2485(c)(3)	The combined total annual average concentration of compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 1 tpy.	Y	
63.2485(d)	(d) Wastewater tank requirements.	Y	

Table IV - G.7
Source-Specific Applicable Requirements

S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(d)(1)	(1) When §§63.133 and 63.147 reference floating roof requirements in §§63.119 and 63.120, the corresponding requirements in subpart WW of this part 63 may be applied for the purposes of this subpart.	Y	
63.2485(d)(2)	(2) When §63.133(a) refers to table 10 of subpart G of this part 63, the maximum true vapor pressure in the table shall be limited to the HAP listed in tables 8 and 9 of this subpart FFFF.	Y	
63.2485(d)(3)	(3) For the purposes of this subpart, the requirements of §63.133(a)(2) are satisfied by operating and maintaining a fixed roof if you demonstrate that the total soluble and partially soluble HAP emissions from the wastewater tank are no more than 5 percent higher than the emissions would be if the contents of the wastewater tank were not heated, treated by an exothermic reaction, or sparged.	Y	
63.2485(d)(4)	(4) The emission limits specified in §§63.133(b)(2) and 63.139 for control devices used to control emissions from wastewater tanks do not apply during periods of planned routine maintenance of the control device(s) of no more than 240 hr/yr. You may request an extension to a total of 360 hr/yr in accordance with the procedures specified in §63.2470(d).	Y	
63.2485(f)	(f) Closed-vent system requirements. Except as specified in §63.2450(e)(6), when §63.148(k) refers to closed vent systems that are subject to the requirements of §63.172, the requirements of either §63.172 or §63.1034 apply for the purposes of this subpart.	Y	
63.2485(h)	(h) Alternative test methods.	Y	
63.2485(j)	(j) You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	
63.2485(m)	(m) When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
63.2485(o)	(o) Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	

Table IV - G.7
Source-Specific Applicable Requirements

S700 - Tank A-700
API Separator Sludge Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(p)	(p) Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	(q) Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
BAAQMD Condition 27587			
Part 6	Calendar day and rolling 12 consecutive months throughput limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 17	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter – General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	Y	
6-1-305	Visible Particles	Y	
6-1-310.1	Total Suspended Particulate Concentration Limits	Y	
6-1-401	Appearance of Emissions	Y	
6-1-601	Applicability of Test Methods	Y	
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, Applicability	N	
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	N	
8-8-302	Wastewater separators (OWS) rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-302.3	(OWS) a vapor-tight fixed cover with an organic compound vapor recovery, or system which has a combined collection and destruction efficiency of at least 95 percent, by weight, inspection and access hatches shall be closed except for inspection, maintenance, or wastewater sampling	N	
8-8-302.6	Inspect Roof seals, fixed covers, access doors, and other openings semiannually to verify vapor tight (S-819 - OWS)	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit (DNF): any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following:	Y	
8-8-307.2	(DNF) with an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.	N	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	N	
8-8-602	Determination of Emissions	N	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds - Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-101	Description, Applicability	Y	
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-302.3	(OWS) a vapor-tight fixed cover with an organic compound vapor recovery, or system which has a combined collection and destruction efficiency of at least 95 percent, by weight, inspection and access hatches shall be closed except for inspection, maintenance, or wastewater sampling	Y	
8-8-307.2	(DNF) an organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70 % by weight.	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-601	Wastewater Analysis for Critical Organic Compounds	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
40 CFR 61 Subpart FF	NESHAPS - Benzene Waste Operations (12/04/2003) Requirements for uncontrolled 6BQ wastewater streams [61.342(e)(2)]		
61.340(a)	Applicability: petroleum refineries	Y	
61.341	Definitions	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 63 Subpart G	NESHAPS - SOCFI for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/19/2020) (applicable as directed by 63.2485(a) and Table 7 to 40 CFR 63 Subpart FFFF)	Y	
63.132(a)	Existing sources	Y	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(c)(2)	A wastewater stream is a Group 2 wastewater stream if it is not a Group 1 wastewater stream	Y	
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.137	Process wastewater provisions—oil-water separators. (Group 1 wastewater only)	Y	
63.137(a)	Requirements for each oil-water separator that receives, manages, or treats a Group 1 wastewater stream or a residual removed from a Group 1 wastewater stream	Y	
63.137(b)	Requirements for a closed vent system to a control device.	Y	
63.137(c)	Requirements for seal gap measurements.	Y	
63.137(d)	Requirements for inspections.	Y	
63.137(e)	Requirements for inspections for control equipment failures.	Y	
63.137(f)	Requirements for repairs.	Y	
40 CFR 63 Subpart FFFF	NESHAPS: Miscellaneous Organic Chemical Manufacturing (08/12/2020)		
63.2435	Am I subject to the requirements in this subpart?	Y	
63.2435(a)	You are subject to this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at a major source of HAP.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	The miscellaneous organic chemical manufacturing affected source includes wastewater systems that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2445	When do I have to comply with this subpart?	Y	
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(g)	All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with 63.2445(g)(1 – 7) upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2445(g)(6)	For wastewater streams and liquid streams in open systems within an MCPU, the requirements specified in § 63.2485(i)(2)(iii), (n)(2)(vii), (p), and (q).	Y	
63.2485	Wastewater streams and liquid streams in open systems	Y	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	
63.2485(c)	(c) Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(c)(1)	The total annual average concentration of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 10,000 ppmw at any flowrate, and the total annual load of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 200 lb/yr.	Y	
63.2485(c)(2)	The total annual average concentration of compounds in table 8 to 40 CFR 63 Subpart FFFF is greater than or equal to 1,000 ppmw, and the annual average flowrate is greater than or equal to 1 l/min.	Y	
63.2485(c)(3)	The combined total annual average concentration of compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 30,000 ppmw, and the combined total annual load of compounds in tables 8 and 9 to 40 CFR 63 Subpart FFFF is greater than or equal to 1 tpy.	Y	
63.2485(f)	(f) Closed-vent system requirements. Except as specified in §63.2450(e)(6), when §63.148(k) refers to closed vent systems that are subject to the requirements of §63.172, the requirements of either §63.172 or §63.1034 apply for the purposes of this subpart.	Y	
63.2485(h)	(h) Alternative test methods.	Y	
63.2485(j)	(j) You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(m)	(m) When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
63.2485(o)	(o) Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	
63.2485(p)	(p) Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	(q) Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
BAAQMD Condition 7406			
Part A1	S-819 Enclosure requirement and abatement requirement (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part A2	S-819 Back up abatement requirement (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B1	Requirement to cover and abate S-819 DNF outlet channel to S-1026 and A-39 (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and A39 thermal incinerator (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B3	Requirement for pressure to be less than atmospheric in air space below DNF covers (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	

Table IV – G.8
Source-Specific Applicable Requirements

S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B5A	A-39 NMHC < 10 ppm (as methane) rolling one-hour average basis (Basis: BACT, offsets, cumulative increase)	Y	
Part B7	A-39 H2S < 1 ppm (Basis: toxics)	Y	
Part B10	A-39 minimum temperature (Basis: cumulative increase, offsets, toxics)	Y	
Part B11	A-39 Continuous temperature monitor/recorder (Basis: BACT, offsets, cumulative increase)	Y	
Part B12	Recordkeeping (Basis: BACT, offsets, cumulative increase, toxics)	Y	
BAAQMD Condition 27543			
Part 1	A1584 Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	A1584 VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	A1584 Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	A1584 Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	A1584 Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	A1584 Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
BAAQMD Condition 27587			
Part 12	Calendar day and rolling 12 consecutive months throughput limits (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 17	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Table IV – G.9
Source-Specific Applicable Requirements

S830 - Wastewater Surge Ponds
S831 - Bio-Oxidation Pond,
S842 - Wastewater Treatment Plant
S1101, S1102, S1103, S1104 - Subsurface Aerator Systems

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
SIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
40 CFR 63 Subpart G	NESHAPS - SOCMi for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/19/2020) (applicable as directed by 63.2485(a) and Table 7 to 40 CFR 63 Subpart FFFF)	Y	
63.132(a)	Existing sources	Y	
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §§63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	

Table IV – G.9
Source-Specific Applicable Requirements

S830 - Wastewater Surge Ponds
S831 - Bio-Oxidation Pond,
S842 - Wastewater Treatment Plant
S1101, S1102, S1103, S1104 - Subsurface Aerator Systems

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(d)	(d) How to determine Group 1 or Group 2 status for Table 8 compounds.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	
40 CFR 63 Subpart FFFF	NESHAPS - Miscellaneous Organic Chemical Manufacturing (11/19/2020)	Y	
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	

**Table IV – G.9
 Source-Specific Applicable Requirements**

**S830 - Wastewater Surge Ponds
 S831 - Bio-Oxidation Pond,
 S842 - Wastewater Treatment Plant
 S1101, S1102, S1103, S1104 - Subsurface Aerator Systems**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(c)	(c) Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(h)	(h) Alternative test methods.	Y	
63.2485(j)	(j) You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	
63.2485(m)	(m) When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
63.2485(o)	(o) Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	
63.2485(p)	(p) Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	(q) Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
BAAQMD Condition 7688	Applies to S1101, S1102, S1103, S1104 Only		
Part 1	Requirement for subject sources to be operated consistent with specification set forth during permitting (Basis: cumulative increase)	Y	

**Table IV – G.9
Source-Specific Applicable Requirements**

**S830 - Wastewater Surge Ponds
S831 - Bio-Oxidation Pond,
S842 - Wastewater Treatment Plant
S1101, S1102, S1103, S1104 - Subsurface Aerator Systems**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 27587	Applies to S830, S831, and S842 Only		
Part 13 (S830)	S830 Calendar day and rolling 12 consecutive months throughput limits (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 14 (S831)	S831 Calendar day and rolling 12 consecutive months throughput limits (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 15 (S842)	S842 Calendar day and rolling 12 consecutive months throughput limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 17	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Table IV – G.10
Source-Specific Applicable Requirements

S1026 - DNF Effluent Air Stripper
Abated by A39

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter – General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	Y	
6-1-305	Visible Particles	Y	
6-1-310.1	Total Suspended Particulate Concentration Limits	Y	
6-1-401	Appearance of Emissions	Y	
6-1-601	Applicability of Test Methods	Y	
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
SIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
40 CFR 63 Subpart G	NESHAPS - SOCM I for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/19/2020) (applicable as directed by 63.2485(a) and Table 7 to 40 CFR 63 Subpart FFFF)	Y	
63.132(a)	Existing sources	Y	
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §§63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	

Table IV – G.10
Source-Specific Applicable Requirements

S1026 - DNF Effluent Air Stripper
Abated by A39

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(d)	(d) How to determine Group 1 or Group 2 status for Table 8 compounds.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	
40 CFR 63 Subpart FFFF	NESHAPS - Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	

Table IV – G.10
Source-Specific Applicable Requirements

S1026 - DNF Effluent Air Stripper
Abated by A39

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(c)	(c) Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(h)	(h) Alternative test methods.	Y	
63.2485(j)	(j) You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	
63.2485(m)	(m) When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
63.2485(o)	(o) Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	
63.2485(p)	(p) Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	(q) Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
BAAQMD Condition 7406			
Part A1	S-819 Enclosure requirement and abatement requirement (vent to S-1026) (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B1	Requirement to cover and abate DNF outlet channel to S-1026 and A-39 (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	

Table IV – G.10
Source-Specific Applicable Requirements

S1026 - DNF Effluent Air Stripper
Abated by A39

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and A39 thermal incinerator (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B3	Requirement for pressure to be less than atmospheric in air space below DNF covers (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B5A	A-39 NMHC < 10 ppm (as methane) rolling one-hour average basis (Basis: BACT, offsets, cumulative increase)	Y	
Part B7	A-39 H2S < 1 ppm (Basis: toxics)	Y	
Part B10	A-39 minimum temperature to abate S-1026 (Basis: cumulative increase, offsets, toxics)	Y	
Part B11	A-39 Continuous temperature monitor/recorder (Basis: BACT, offsets, cumulative increase)	Y	
Part B12	Recordkeeping (Basis: BACT, offsets, cumulative increase, toxics)	Y	

**Table IV – G.11
 Source-Specific Applicable Requirements**

S2013 – Tank A-432, Moving Bed Biofilm Reactor (formerly S432)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, Applicability	N	
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
8-8-602	Determination of Emissions	N	
8-8-603	Inspection Procedures	N	
SIP Regulation 8 Rule 8	Organic Compounds – Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-101	Description, Applicability	Y	
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
40 CFR 63 Subpart G	NESHAPS - SOCMII for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/19/2020) (applicable as directed by 63.2485(a) and Table 7 to 40 CFR 63 Subpart FFFF)		
63.132(a)	Existing sources	Y	
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §§63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	

**Table IV – G.11
 Source-Specific Applicable Requirements**

S2013 – Tank A-432, Moving Bed Biofilm Reactor (formerly S432)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(d)	(d) How to determine Group 1 or Group 2 status for Table 8 compounds.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	
40 CFR 63 Subpart FFFF	NESHAPS - Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	
63.2485(c)	(c) Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(h)	(h) Alternative test methods.	Y	

**Table IV – G.11
 Source-Specific Applicable Requirements**

S2013 – Tank A-432, Moving Bed Biofilm Reactor (formerly S432)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(j)	(j) You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	
63.2485(m)	(m) When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	
63.2485(o)	(o) Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	
63.2485(p)	(p) Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	(q) Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
BAAQMD Condition 27610			
Part 1	Calendar day and 12 consecutive months throughput limits (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Calendar day and 12 consecutive months POC emission limits. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-301 BACT, Regulation 2-2-302 Offsets)	Y	

Section H Sulfur and Ammonia Processing

**Table IV – H.1
 Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV – H.2
 Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV – H.3
 Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV – H.4
 Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV – H.5
 Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – H.6
Source-specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – H.7
Source-specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – H.8
Source-specific Applicable Requirements
[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Section J Miscellaneous Organic Sources (including Fugitive Components)

**Table IV- J.0
 Fugitive Sources: Applicable Requirements**

Process Unit (Area IDs)	BAAQMD Reg. 8-18 Note 1	40 CFR 63, Subpart FFFF; 40 CFR 63, Subpart UU Note 2	40 CFR 63, Subpart EEEE; 40 CFR 63 Note 3	40 CFR 63, Subpart R Note 4	40 CFR 63, Subpart FFFF Pressure Relief Devices Note 5	40 CFR 63, Subpart EEEE Pressure Relief Devices Note 6
Sitewide – Remediation Hydrocarbon Recovery (S1452)	X					
Gas Plant #5 (003)	X	X			X	
Foul Water (018)	X					
Flare Complex (019)	X	X			X	
Cracking Plat (Pump/Storage) (014, 066, 055)	X					
Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit) (004)	X	X			X	
Propane Dryers (formerly No. 1 HDS Unit) (005)	X					
Diesel HDO Unit No. 1 (formerly 1st Stage Hydrocracker Unit) (067)	X	X			X	
Diesel Isomerization Unit (formerly 2nd Stage Hydrocracker Unit) (068)	X	X			X	
Hydrogen Plant #1 (069)	X					
Isom #1 (022 includes spheres)	X					
Gas Plant #1 (034)	X	X			X	
Clarifying (037)	X	X			X	
Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit) (076)	X	X			X	
Benzene Saturation (091)	X					
API Separator (045)	X	X			X	
Fire Grounds (N/A)	X					
Transportation	X					

Table IV- J.0
Fugitive Sources: Applicable Requirements

Process Unit (Area IDs)	BAAQMD Reg. 8-18 Note 1	40 CFR 63, Subpart FFFF; 40 CFR 63, Subpart UU Note 2	40 CFR 63, Subpart EEEE; 40 CFR 63 Note 3	40 CFR 63, Subpart R Note 4	40 CFR 63, Subpart FFFF Pressure Relief Devices Note 5	40 CFR 63, Subpart EEEE Pressure Relief Devices Note 6
Vehicle Gasoline Dispensing (Tank 950)	X					
Avon Wharf, Berth 1A (015)	X					
Main Pump House #2 (025)	X		X			
Amorco Wharf (017)	X		X			
Tract #3 LPG Shipping (039)	X	X				
Tract #3 Booster Pump House (Pumps #3-10) (040)	X	X				
Tract #3 Truck Shipping (039)	X		X	X		
Tract #6 (Gasoline Blending) (071)	X			X		
Tract #4 (Tank 691 LPG Equipment) (072)	X		X			
Tract #3 (Gauger) (Tanks, gasoline and ethanol pumps) (066)	X	X	X	X		
Tract #4 (Storage Tanks) (066)	X		X			
Tract #6 (Pump/Storage for R99) (066)	X		X	X		
Pretreatment Unit (120, 102, 048)	X	X			X	
Stage 1 Wastewater Treatment #2 (122)	X	X			X	

NOTE 1 - APPLICABILITY FOR BAAQMD REGULATION 8, RULE 18 ALSO APPLIES TO SIP REGULATION 8, RULE 18.

NOTE 2 - 40 CFR 63 SUBPART FFFF APPLIES TO ALL MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING PROCESS UNITS (MPCU) PROCESS STREAMS WITH AN ORGANIC HAZARDOUS AIR POLLUTANT (OHAP) CONTENT GREATER THAN 5%.

NOTE 3 - 40 CFR 63 SUBPART EEEE APPLIES TO ALL NON-GASOLINE ORGANIC LIQUIDS DISTRIBUTION OPERATIONS STREAMS WITH AN OHAP CONTENT GREATER THAN 5%.

NOTE 4 - 40 CFR 63 SUBPART R APPLIES TO GASOLINE ORGANIC LIQUIDS DISTRIBUTION OPERATIONS STREAMS WITH AN OHAP CONTENT GREATER THAN 5%.

NOTE 5 - 40 CFR 63 SUBPART FFFF APPLIES TO ALL MISCELLANEOUS ORGANIC CHEMICAL MANUFACTURING PROCESS UNITS (MPCU) PROCESS STREAMS WITH AN ORGANIC HAZARDOUS AIR POLLUTANT (OHAP) CONTENT GREATER THAN 5%.

NOTE 6 - 40 CFR 63 SUBPART EEEE APPLIES TO ALL NON-GASOLINE ORGANIC LIQUIDS DISTRIBUTION OPERATIONS STREAMS WITH AN OHAP CONTENT GREATER THAN 5%.

**Table IV – J.1
 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater 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 (11/03/2021)		
8-18-100	General/Applicability	Y	
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-200	Definitions	Y	
8-18-301	General Standard	Y	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connections	N	
8-18-304.1	Connection Leak Discovered by Operator	Y	
8-18-304.2	Connection Leak Discovered by APCO	N	
8-18-305	Pressure relief devices	Y	
8-18-306	Non-repairable equipment	N	
8-18-306.1	Equipment leak must be less than 10,000 ppm	N	
8-18-306.2	Total Number of Non-repairable Equipment Allowed	N	
8-18-306.3	Non-Repairable Connections Count as Two Valves	N	
8-18-306.4	Repair or replacement requirements	N	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-401	Inspection	N	
8-18-402	Identification	Y	
8-18-403	Visual inspection schedule	Y	
8-18-404	Alternate inspection schedule	Y	
8-18-405	Alternate emission reduction plan	Y	
8-18-406	Interim Compliance	Y	
8-18-407	Recurrent Leak Schedule		
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-503	Reports	N	
8-18-601	Analysis of Samples	Y	
8-18-602	Inspection Procedure	Y	
8-18-603	Determination of Control Efficiency	N	
8-18-604	Determination of Mass Emissions	N	
SIP Regulation 8 Rule 18	Organic Compounds, Equipment Leaks (06/05/2003)		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and Compressors	Y	
8-18-304	Connections	Y	
8-18-304.2	Connection Leak Discovered by APCO	Y	
8-18-306	Non-repairable Equipment	Y	
8-18-306.1	Non-repairable Equipment	Y	
8-18-306.2	Non-repairable Equipment	Y	
8-18-401	Inspection	Y	
8-18-502	Records	Y	
8-18-603	Determination of Control Efficiency	Y	
8-18-604	Determination of Mass Emissions	Y	
BAAQMD Regulation 11 Rule 7	Hazardous Pollutants: Benzene (05/15/1985)		
11-7-101	General/Applicability	N	
11-7-112	Exemption: Vacuum Service	N	
11-7-213	Leak Definition	N	
11-7-301	General: Equipment must be uniquely marked	N	
11-7-302	Pump Standards	N	
11-7-303	Compressor Standards	N	
11-7-304	Pressure Relief Devices in Gas/Vapor Service Standards	N	
11-7-305	Sampling Connecting System Standards	N	
11-7-306	Open-ended Valve Standards	N	
11-7-306.1	Open-Ended Valves or Lines	N	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
11-7-306.2	Open-Ended Valves or Lines	N	
11-7-307	Valve Standards	N	
11-7-307.1	Valve Standards	N	
11-7-307.2	Valve Standards	N	
11-7-307.3	Valve Standards	N	
11-7-307.4	Valve Standards	N	
11-7-307.5	Valve Standards	N	
11-7-308	Pressure Relief Devices in Liquid Service, Flanges and Other Connector Standards	N	
11-7-309	Product Accumulator Vessel Standards	N	
11-7-310	Delay of Repair Limitations	N	
11-7-310.1	Delay of Repairs	N	
11-7-310.4	Delay of Repairs	N	
11-7-311	Closed Vent Systems and Control Device Standards	N	
11-7-312	Alternative Standards for Valves in Benzene Service	N	
11-7-314	Alternative Means of Emission Limitation	N	
11-7-401	Visually inspect pumps for liquid dripping weekly, except for “no detectable emissions” and pumps equipped with closed vent systems	N	
11-7-403	Reporting: semiannually for valves, pumps, and compressors	N	
11-7-501	Monitor pumps and valves, except for “no detectable emissions”	N	
11-7-502	Recordkeeping	N	
11-7-502.1.4	Records	N	
11-7-502.1.5	Records	N	
11-7-601	Monitoring shall be conducted as specified in 40 CFR 61 and the Manual of Procedures	N	
40 CFR 61 Subpart V	NESHAPS for Equipment Leaks (Fugitive Emission Sources) (12/14/2000) Referenced by 40 CFR 61 Subpart J. Applicability limited to component types specified in 40 CFR 61 Subpart J and not also subject to 40 CFR 63 Subpart FFFF by 40 CFR 63 Subpart FFFF overlap in 63.2535(k)		
61.240	Applicability and designation of sources	Y	
61.240(a)	Applicability and designation of sources: VHAP service	Y	
61.240(b)	Applicability and designation of sources: applicability depends on referencing subpart	Y	

Table IV – J.1
Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.240(c)	Applicability and designation of sources: Overlap with Part 60	Y	
61.240(d)	Applicability: VHAP service; Alternative means of compliance	Y	
61.240(d)(4)	Applicability: VHAP service; Alternative means of compliance; rules referencing this subpart	Y	
61.241	Definitions	Y	
61.242-1	Standards: General	Y	
61.242-1(a)	Standards: General; comply with 61.242-1 thru 61.242-11 for new and existing sources except as provided in 61.243 and 61.244	Y	
61.242-1(b)	Standards: General; Determination of compliance	Y	
61.242-1(c)(1)	Standards: General; Allowance for alternative means of emission limitation	Y	
61.242-1(d)	Standards: General; Identification requirements	Y	
61.242-1(e)	Standards: General; Exemption for equipment in vacuum service	Y	
61.242-8	Standards: Connectors	Y	
61.242-8(a)	Standards: Connectors; procedures if evidence of leak is found (visual, audible, olfactory, or other method)	Y	
61.242-8(a)(1)	Standards: Connectors; procedures if evidence of leak is found; monitor within 5 days by Method 21	Y	
61.242-8(a)(2)	Standards: Connectors; procedures if evidence of leak is found; eliminate indication of leak	Y	
61.242-8(b)	Standards: Connectors; definition of Method 21 leak (> 10,000 ppm)	Y	
61.242-8(c)(1)	Standards: Connectors; leak repair and delay of repair	Y	
61.242-8(c)(2)	Standards: Connectors; leak repair – time for first attempt	Y	
61.242-8(d)	Standards: Connectors; leak repair – methods for first attempt	Y	
61.242-9	Standards: surge control vessels and bottoms receivers: If not routed back to the process and if meets conditions in Table 1 or Table 2, then equip with a closed-vent system and route to process or to control device as described in 61.242-11 or approved alternative or comply with 63.119(b) and (c)	Y	
61.242-10	Standards: Delay of repair	Y	
61.242-10(a)	Standards: Delay of repair; allowed if technically infeasible within 15 days without process unit shutdown	Y	
61.242-10(b)	Standards: Delay of repair; isolated equipment	Y	
61.242-10(e)	Standards: Delay of repair; requirements to complete repairs	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.244	Alternative means of emission limitation	Y	
61.242-11	Requirements for Closed-vent systems and control devices	Y	
61.242-11(c)	Vapor recovery systems must recover VOC emissions by 95% or greater or to a concentration of 20ppmv, whichever is less stringent	Y	
61.245	Test Methods and Procedures	Y	
61.245(b)	Test Methods and Procedures; Method 21 monitoring	Y	
61.245(d)	Test Methods and Procedures; determination of VHAP service	Y	
61.246	Recordkeeping requirements	Y	
61.246(a)	Recordkeeping requirements; compliance required	Y	
61.246(b)	Recordkeeping requirements; identification of leaking components	Y	
61.246(c)	Recordkeeping requirements; records for leaking components	Y	
61.246(e)	Recordkeeping requirements; records for affected equipment	Y	
61.246(i)	Recordkeeping requirements; records for exempt process units	Y	
61.247	Reporting	Y	
40 CFR 63 Subpart EEEE	National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline) (11/19/2020)	Y	
63.2330	What is the purpose of this subpart?	Y	
63.2330	This subpart establishes national emission limitations, operating limits, and work practice standards for organic hazardous air pollutants (HAP) emitted from organic liquids distribution (OLD) (non-gasoline) operations at major sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations, operating limits, and work practice standards.	Y	
63.2334	Am I Subject to this Subpart?	Y	
63.2334(a)	(a) Except as provided for in paragraphs (b) and (c) of this section, you are subject to this subpart if you own or operate an OLD operation that is located at, or is part of, a major source of HAP emissions. An OLD operation may occupy an entire plant site or be collocated with other industrial (e.g., manufacturing) operations at the same plant site.	Y	
63.2334(b)	(b) Organic liquid distribution operations located at research and development facilities, consistent with section 112(c)(7) of the Clean Air Act (CAA), are not subject to this subpart.	Y	
63.2338	What parts of my plant does this subpart cover?	Y	
63.2338(a)	(a) This subpart applies to each new, reconstructed, or existing OLD operation affected source.	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2338(b)	(b) Except as provided in paragraph (c) of this section, the affected source is the collection of activities and equipment used to distribute organic liquids into, out of, or within a facility that is a major source of HAP. The affected source is composed of:	Y	
63.2338(b)(3)	(3) All equipment leak components in organic liquids service that are associated with:	Y	
63.2338(b)(3)(i)	(i) Storage tanks storing organic liquids;	Y	
63.2338(b)(3)(ii)	(ii) Transfer racks loading or unloading organic liquids;	Y	
63.2338(b)(3)(iii)	(iii) Pipelines that transfer organic liquids directly between two storage tanks that are subject to this subpart;	Y	
63.2338(b)(3)(iv)	(iv) Pipelines that transfer organic liquids directly between a storage tank subject to this subpart and a transfer rack subject to this subpart; and	Y	
63.2338(b)(3)(v)	(v) Pipelines that transfer organic liquids directly between two transfer racks that are subject to this subpart.	Y	
63.2338(c)	(c) The equipment listed in paragraphs (c)(1) through (3) of this section and used in the identified operations is excluded from the affected source.	Y	
63.2338(c)(1)	(1) Storage tanks, transfer racks, transport vehicles, containers, and equipment leak components that are part of an affected source under another 40 CFR part 63 national emission standards for hazardous air pollutants (NESHAP).	Y	
63.2338(c)(2)	(2) Non-permanent storage tanks, transfer racks, transport vehicles, containers, and equipment leak components when used in special situation distribution loading and unloading operations (such as maintenance or upset liquids management).	Y	
63.2338(c)(3)	(3) Storage tanks, transfer racks, transport vehicles, containers, and equipment leak components when used to conduct maintenance activities, such as stormwater management, liquid removal from tanks for inspections and maintenance, or changeovers to a different liquid stored in a storage tank.	Y	
63.2338(d)	(d) An affected source is a new affected source if you commenced construction of the affected source after April 2, 2002, and you meet the applicability criteria in §63.2334 at the time you commenced operation.	Y	
63.2338(e)	(e) An affected source is reconstructed if you meet the criteria for reconstruction as defined in §63.2.	Y	
63.2338(f)	(f) An affected source is existing if it is not new or reconstructed.	Y	
63.2342	When do I have to comply with this subpart.	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)	(b) Except as specified in paragraph (e) of this section, if you have an existing affected source, you must comply with this subpart according to the schedule identified in paragraph (b)(1), (2), or (3) of this section, as applicable.	Y	
63.2342(b)(1)	(1) If you have an existing affected source, you must comply with the emission limitations, operating limits, and work practice standards for existing affected sources no later than February 5, 2007, except as provided in paragraphs (b)(2) and (3) of this section.	Y	
63.2342(b)(2)	(2) Floating roof storage tanks at existing affected sources must be in compliance with the work practice standards in Table 4 to this subpart, item 1, at all times after the next degassing and cleaning activity or within 10 years after February 3, 2004, whichever occurs first. If the first degassing and cleaning activity occurs during the 3 years following February 3, 2004, the compliance date is February 5, 2007.	Y	
63.2342(b)(3)(i)	(3)(i) If an addition or change other than reconstruction as defined in §63.2 is made to an existing affected facility that causes the total actual annual facility-level organic liquid loading volume to exceed the criteria for control in Table 2 to this subpart, items 7 and 8, the owner or operator must comply with the transfer rack requirements specified in §63.2346(b) immediately; that is, be in compliance the first day of the period following the end of the 3-year period triggering the control criteria.	Y	
63.2342(b)(3)(ii)	(ii) If the owner or operator believes that compliance with the transfer rack emission limits cannot be achieved immediately, as specified in paragraph (b)(3)(i) of this section, the owner or operator may submit a request for a compliance extension, as specified in paragraphs (b)(3)(ii)(A) through (I) of this section. Subject to paragraph (b)(3)(ii)(B) of this section, until an extension of compliance has been granted by the Administrator (or a State with an approved permit program) under this paragraph (b)(3)(ii), the owner or operator of the transfer rack subject to the requirements of this section shall comply with all applicable requirements of this subpart. Advice on requesting an extension of compliance may be obtained from the Administrator (or the State with an approved permit program).	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(A)	(A) <i>Submittal.</i> The owner or operator shall submit a request for a compliance extension to the Administrator (or a State, when the State has an approved 40 CFR part 70 permit program and the source is required to obtain a 40 CFR part 70 permit under that program, or a State, when the State has been delegated the authority to implement and enforce the emission standard for that source) seeking an extension allowing the source up to 1 additional year to comply with the transfer rack standard, if such additional period is necessary for the installation of controls. The owner or operator of the affected source who has requested an extension of compliance under this paragraph (b)(3)(ii)(A) and who is otherwise required to obtain a title V permit shall apply for such permit, or apply to have the source's title V permit revised to incorporate the conditions of the extension of compliance. The conditions of an extension of compliance granted under this paragraph (b)(3)(ii)(A) will be incorporated into the affected source's title V permit according to the provisions of 40 CFR part 70 or Federal title V regulations in this chapter (42 U.S.C. 7661), whichever are applicable.	Y	
63.2342(b)(3)(ii)(B)(1)	(B) <i>When to submit.</i> (1) Any request submitted under paragraph (b)(3)(ii)(A) of this section must be submitted in writing to the appropriate authority no later than 120 days prior to the affected source's compliance date (as specified in paragraph (b)(3)(i) of this section), except as provided for in paragraph (b)(3)(ii)(B)(2) of this section. Nonfrivolous requests submitted under this paragraph (b)(3)(ii)(B)(1) will stay the applicability of the rule as to the emission points in question until such time as the request is granted or denied. A denial will be effective as of the date of denial.	Y	
63.2342(b)(3)(ii)(B)(2)	(2) An owner or operator may submit a compliance extension request after the date specified in paragraph (b)(3)(ii)(B)(1) of this section provided the need for the compliance extension arose after that date, and before the otherwise applicable compliance date and the need arose due to circumstances beyond reasonable control of the owner or operator. This request must include, in addition to the information required in paragraph (b)(3)(ii)(C) of this section, a statement of the reasons additional time is needed and the date when the owner or operator first learned of the problems. Nonfrivolous requests submitted under this paragraph (b)(3)(ii)(B)(2) will stay the applicability of the rule as to the emission points in question until such time as the request is granted or denied. A denial will be effective as of the original compliance date.	Y	
63.2342(b)(3)(ii)(C)	(C) <i>Information required.</i> The request for a compliance extension under paragraph (b)(3)(ii)(A) of this section shall include the following information:	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(C)(1)	(1) The name and address of the owner or operator and the address of the existing source if it differs from the address of the owner or operator;	Y	
63.2342(b)(3)(ii)(C)(2)	(2) The name, address, and telephone number of a contact person for further information;	Y	
63.2342(b)(3)(ii)(C)(3)	(3) An identification of the organic liquid distribution operation and of the specific equipment for which additional compliance time is required;	Y	
63.2342(b)(3)(ii)(C)(4)	(4) A description of the controls to be installed to comply with the standard;	Y	
63.2342(b)(3)(ii)(C)(5)	(5) Justification for the length of time being requested; and	Y	
63.2342(b)(3)(ii)(C)(6)	(6) A compliance schedule, including the date by which each step toward compliance will be reached. At a minimum, the list of dates shall include:	Y	
63.2342(b)(3)(ii)(C)(6)(i)	(i) The date by which on-site construction, installation of emission control equipment, or a process change is planned to be initiated;	Y	
63.2342(b)(3)(ii)(C)(6)(ii)	(ii) The date by which on-site construction, installation of emission control equipment, or a process change is to be completed; and	Y	
63.2342(b)(3)(ii)(C)(6)(iii)	(iii) The date by which final compliance is to be achieved.	Y	
63.2342(b)(3)(ii)(D)	(D) <i>Approval of request for extension of compliance.</i> Based on the information provided in any request made under paragraph (b)(3)(ii)(C) of this section, or other information, the Administrator (or the State with an approved permit program) may grant an extension of compliance with the transfer rack emission standard, as specified in paragraph (b)(3)(ii) of this section. The extension will be in writing and will—	Y	
63.2342(b)(3)(ii)(D)(1)	(1) Identify each affected source covered by the extension;	Y	
63.2342(b)(3)(ii)(D)(2)	(2) Specify the termination date of the extension;	Y	
63.2342(b)(3)(ii)(D)(3)	(3) Specify the dates by which steps toward compliance are to be taken, if appropriate;	Y	
63.2342(b)(3)(ii)(D)(4)	(4) Specify other applicable requirements to which the compliance extension applies (e.g., performance tests);	Y	
63.2342(b)(3)(ii)(D)(5)	(5) Specify the contents of the progress reports to be submitted and the dates by which such reports are to be submitted, if required pursuant to paragraph (b)(3)(ii)(E) of this section.	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(D)(6)	(6) Under paragraph (b)(3)(ii) of this section, specify any additional conditions that the Administrator (or the State) deems necessary to assure installation of the necessary controls and protection of the health of persons during the extension period.	Y	
63.2342(b)(3)(ii)(E)	(E) <i>Progress reports.</i> The owner or operator of an existing source that has been granted an extension of compliance under paragraph (b)(3)(ii)(D) of this section may be required to submit to the Administrator (or the State with an approved permit program) progress reports indicating whether the steps toward compliance outlined in the compliance schedule have been reached.	Y	
63.2342(b)(3)(ii)(F)(1)	(F) <i>Notification of approval or intention to deny.</i> (1) The Administrator (or the State with an approved permit program) will notify the owner or operator in writing of approval or intention to deny approval of a request for an extension of compliance within 30 calendar days after receipt of sufficient information to evaluate a request submitted under paragraph (b)(3)(ii) of this section. The Administrator (or the State) will notify the owner or operator in writing of the status of his/her application; that is, whether the application contains sufficient information to make a determination, within 30 calendar days after receipt of the original application and within 30 calendar days after receipt of any supplementary information that is submitted. The 30-day approval or denial period will begin after the owner or operator has been notified in writing that his/her application is complete. Failure by the Administrator to act within 30 calendar days to approve or disapprove a request submitted under paragraph (b)(3)(ii) of this section does not constitute automatic approval of the request.	Y	
63.2342(b)(3)(ii)(F)(2)	(2) When notifying the owner or operator that his/her application is not complete, the Administrator will specify the information needed to complete the application and provide notice of opportunity for the applicant to present, in writing, within 30 calendar days after he/she is notified of the incomplete application, additional information or arguments to the Administrator to enable further action on the application.	Y	
63.2342(b)(3)(ii)(F)(3)	(3) Before denying any request for an extension of compliance, the Administrator (or the State with an approved permit program) will notify the owner or operator in writing of the Administrator's (or the State's) intention to issue the denial, together with:	Y	
63.2342(b)(3)(ii)(F)(3)(i)	(i) Notice of the information and findings on which the intended denial is based; and	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(F)(3)(ii)	(ii) Notice of opportunity for the owner or operator to present in writing, within 15 calendar days after he/she is notified of the intended denial, additional information or arguments to the Administrator (or the State) before further action on the request.	Y	
63.2342(b)(3)(ii)(F)(4)	(4) The Administrator's final determination to deny any request for an extension will be in writing and will set forth the specific grounds on which the denial is based. The final determination will be made within 30 calendar days after presentation of additional information or argument (if the application is complete), or within 30 calendar days after the final date specified for the presentation if no presentation is made.	Y	
63.2342(b)(3)(ii)(G)	(G) <i>Termination of extension of compliance.</i> The Administrator (or the State with an approved permit program) may terminate an extension of compliance at an earlier date than specified if any specification under paragraph (b)(3)(ii)(D)(3) or paragraph (b)(3)(ii)(D)(4) of this section is not met. Upon a determination to terminate, the Administrator will notify, in writing, the owner or operator of the Administrator's determination to terminate, together with:	Y	
63.2342(b)(3)(ii)(G)(1)	(1) Notice of the reason for termination; and	Y	
63.2342(b)(3)(ii)(G)(2)	(2) Notice of opportunity for the owner or operator to present in writing, within 15 calendar days after he/she is notified of the determination to terminate, additional information or arguments to the Administrator before further action on the termination.	Y	
63.2342(b)(3)(ii)(G)(3)	(3) A final determination to terminate an extension of compliance will be in writing and will set forth the specific grounds on which the termination is based. The final determination will be made within 30 calendar days after presentation of additional information or arguments, or within 30 calendar days after the final date specified for the presentation if no presentation is made.	Y	
63.2342(b)(3)(ii)(H)	(H) The granting of an extension under this section shall not abrogate the Administrator's authority under section 114 of the CAA.	Y	
63.2342(b)(3)(ii)(I)	(I) <i>Limitation on use of compliance extension.</i> The owner or operator may request an extension of compliance under the provisions specified in paragraph (b)(3)(ii) of this section only once for each facility.	Y	
63.2342(d)	(d) You must meet the notification requirements in §§63.2343 and 63.2382(a), as applicable, according to the schedules in §63.2382(a) and (b)(1) through (2) and in subpart A of this part. Some of these notifications must be submitted before the compliance dates for the emission limitations, operating limits, and work practice standards in this subpart.	Y	

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 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2343	What are my requirements for emission sources not requiring control?	Y	
63.2343	This section establishes the notification, recordkeeping, and reporting requirements for emission sources identified in §63.2338 that do not require control under this subpart (<i>i.e.</i> , under §63.2346(a) through (e)). Such emission sources are not subject to any other notification, recordkeeping, or reporting sections in this subpart, including §63.2350(c), except as indicated in paragraphs (a) through (d) of this section.	Y	
63.2343(b)(1)(i)	(1)(i) You must submit the information in §63.2386(c)(1), (2), (3), and (10)(i) in either the Notification of Compliance Status, according to the schedule specified in Table 12 to this subpart, or in your first Compliance report, according to the schedule specified in §63.2386(b), whichever occurs first.	Y	
63.2343(b)(1)(ii)(A)	(ii)(A) If you submit your first Compliance report before your Notification of Compliance Status, the Notification of Compliance Status must contain the information specified in §63.2386(d)(3) and (4) if any of the changes identified in paragraph (d) of this section have occurred since the filing of the first Compliance report. If none of the changes identified in paragraph (d) of this section have occurred since the filing of the first Compliance report, you do not need to report the information specified in §63.2386(c)(10)(i) when you submit your Notification of Compliance Status.	Y	
63.2343(b)(1)(ii)(B)	(B) If you submit your Notification of Compliance Status before your first Compliance report, your first Compliance report must contain the information specified in §63.2386(d)(3) and (4) if any of the changes specified in paragraph (d) of this section have occurred since the filing of the Notification of Compliance Status.	Y	
63.2343(b)(1)(iii)	(iii) If you are already submitting a Notification of Compliance Status or a first Compliance report under §63.2386(c), you do not need to submit a separate Notification of Compliance Status or first Compliance report for each storage tank that meets the conditions identified in paragraph (b) of this section (<i>i.e.</i> , a single Notification of Compliance Status or first Compliance report should be submitted).	Y	
63.2343(b)(2)(i)	(2)(i) You must submit a subsequent Compliance report according to the schedule in §63.2386(b) whenever any of the events in paragraph (d) of this section occur, as applicable.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2343(b)(2)(ii)	(ii) Your subsequent Compliance reports must contain the information in §63.2386(c)(1), (2), (3) and, as applicable, in §63.2386(d)(3) and (4). If you are already submitting a subsequent Compliance report under §63.2386(d), you do not need to submit a separate subsequent Compliance report for each storage tank that meets the conditions identified in paragraph (b) of this section (i.e., a single subsequent Compliance report should be submitted).	Y	
63.2343(b)(3)	(3) For each storage tank that meets the conditions identified in paragraph (b) of this section, you must keep documentation, including a record of the annual average true vapor pressure of the total Table 1 organic HAP in the stored organic liquid, that verifies the storage tank is not required to be controlled under this subpart. The documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to §63.10(b)(1), including records stored in electronic form in a separate location.	Y	
63.2343(d)	(d) If one or more of the events identified in paragraphs (d)(1) through (4) of this section occur since the filing of the Notification of Compliance Status or the last Compliance report, you must submit a subsequent Compliance report as specified in paragraphs (b)(2) and (c)(2) of this section.	Y	
63.2343(d)(4)	(4) Any of the information required in §63.2386(c)(1), §63.2386(c)(2), or §63.2386(c)(3) has changed.	Y	
63.2346	What emission limitations, operating limits, and work practice standards must I meet?	Y	
63.2346(c)	(c) <i>Equipment leak components.</i> For each pump, valve, and sampling connection that operates in organic liquids service for at least 300 hours per year, you must comply with paragraph (l) of this section and the applicable requirements under subpart TT of this part (control level 1), subpart UU of this part (control level 2), or subpart H of this part. Pumps, valves, and sampling connectors that are insulated to provide protection against persistent sub-freezing temperatures are subject to the “difficult to monitor” provisions in the applicable subpart selected by the owner or operator. This paragraph only applies if the affected source has at least one storage tank or transfer rack that meets the applicability criteria for control in Table 2 or 2b to this subpart.	Y	
63.2346(l)	(l) <i>Startup, shutdown, and malfunction.</i> Beginning no later than the compliance dates specified in §63.2342(e), the referenced provisions specified in paragraphs (l)(1) through (20) of this section do not apply when demonstrating compliance with subpart H of this part, subpart SS of this part, subpart TT of this part, and subpart UU of this part.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2346(l)(18)	(18) The phrase “may be included as part of the startup, shutdown, and malfunction plan, as required by the referencing subpart for the source, or” from §63.1024(f)(4)(i).	Y	
63.2346(l)(20)	(20) The phrase “(except periods of startup, shutdown, or malfunction)” from §63.1026(e)(1)(ii)(A).	Y	
63.2350	What are my general requirements for complying with this subpart?	Y	
63.2350(a)	(a) You must be in compliance with the emission limitations, operating limits, and work practice standards in this subpart at all times when the equipment identified in §63.2338(b)(1) through (5) is in OLD operation.	Y	
63.2350(b)	(b) Except as specified in paragraph (d) of this section, you must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).	Y	
63.2350(c)	(c) Except for emission sources not required to be controlled as specified in §63.2343, you must develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions in §63.6(e)(3). Beginning no later than July 7, 2023, this paragraph no longer applies; however, for historical compliance purposes, a copy of the plan must be retained and available according to the requirements in §63.2394(c) for five years after July 7, 2023.	Y	
63.2350(d)	(d) Beginning no later than the compliance dates specified in §63.2342(e), paragraph (b) of this section no longer applies. Instead, at all times, you must 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. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	
63.2354	What performance tests, design evaluations, and performance evaluations must conduct.	Y	
63.2354(a)(1)	(a)(1) For each performance test that you conduct, you must use the procedures specified in subpart SS of this part and the provisions specified in paragraph (b) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2354(a)(2)	(2) For each design evaluation you conduct, you must use the procedures specified in subpart SS of this part. You must also comply with the requirements specified in §63.2346(l).	Y	
63.2358	By what date must I conduct performance tests and other initial compliance demonstrations?	Y	
63.2358(c)(2)	(2) For transfer racks and equipment leak components at existing affected sources complying with the work practice standards in Table 4 to this subpart, you must conduct your initial compliance demonstration within 180 days after February 5, 2007.	Y	
63.2358(d)	(d) For storage tanks, transfer racks, and equipment leak components at reconstructed or new affected sources complying with the work practice standards in Table 4 to this subpart, you must conduct your initial compliance demonstration within 180 days after the initial startup date for the affected source.	Y	
63.2370	How do I demonstrate initial compliance with the emission limitations, operating limits, and work practice standards?	Y	
63.2370(a)	(a) You must demonstrate initial compliance with each emission limitation and work practice standard that applies to you as specified in Tables 6 and 7 to this subpart.	Y	
63.2370(c)	(c) You must submit the results of the initial compliance determination in the Notification of Compliance Status according to the requirements in §63.2382(d). If the initial compliance determination includes a performance test and the results are submitted electronically via the Compliance and Emissions Data Reporting Interface (CEDRI) in accordance with §63.2386(g), the unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in the Notification of Compliance Status in lieu of the performance test results. The performance test results must be submitted to CEDRI by the date the Notification of Compliance Status is submitted.	Y	
63.2378	How do I demonstrate continuous compliance with the emission limitations, operating limits, and work practice standards?	Y	
63.2378(a)	(a) You must demonstrate continuous compliance with each emission limitation, operating limit, and work practice standard in Tables 2 through 4 to this subpart that applies to you according to the methods specified in subpart SS of this part, and in Tables 8 through 10 to this subpart, as applicable. You must also comply with the requirements specified in §63.2346(l).	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2378(b)	(b) Except as specified in paragraph (e) of this section, you must follow the requirements in §63.6(e)(1) and (3) during periods of startup, shutdown, malfunction, or nonoperation of the affected source or any part thereof. In addition, the provisions of paragraphs (b)(1) through (3) of this section apply.	Y	
63.2378(e)	(e) Beginning no later than the compliance dates specified in §63.2342(e), paragraphs (b) through (d) of this section no longer apply. Instead, you must be in compliance with each emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section at all times, except during periods of nonoperation of the affected source (or specific portion thereof) resulting in cessation of the emissions to which this subpart applies and must comply with the requirements specified in paragraphs (e)(1) through (5) of this section, as applicable. Equipment subject to the work practice standards for equipment leak components in Table 4 to this subpart, item 4 are not subject to this paragraph (e).	Y	
63.2382	What notifications must I submit and when and what information should be submitted?	Y	
63.2382(a)	(a) You must submit each notification in subpart SS of this part, Table 12 to this subpart, and paragraphs (b) through (d) of this section that applies to you. You must submit these notifications according to the schedule in Table 12 to this subpart and as specified in paragraphs (b) through (d) of this section. You must also comply with the requirements specified in §63.2346(l).	Y	
63.2382(b)(1)	(b)(1) <i>Initial Notification</i> . If you startup your affected source before February 3, 2004, you must submit the Initial Notification no later than 120 calendar days after February 3, 2004.	Y	
63.2382(b)(2)	(2) If you startup your new or reconstructed affected source on or after February 3, 2004, you must submit the Initial Notification no later than 120 days after initial startup.	Y	
63.2382(c)	(c) If you are required to conduct a performance test, you must submit the Notification of Intent to conduct the test at least 60 calendar days before it is initially scheduled to begin as required in §63.7(b)(1).	Y	
63.2382(d)(1)	(d)(1) <i>Notification of Compliance Status</i> . If you are required to conduct a performance test, design evaluation, or other initial compliance demonstration as specified in Table 5, 6, or 7 to this subpart, you must submit a Notification of Compliance Status.	Y	
63.2382(d)(2)	(2) <i>Notification of Compliance Status requirements</i> . The Notification of Compliance Status must include the information required in §63.999(b) and in paragraphs (d)(2)(i) through (ix) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2382(d)(2)(i)	(i) The results of any applicability determinations, emission calculations, or analyses used to identify and quantify organic HAP emissions from the affected source.	Y	
63.2382(d)(2)(ii)	(ii) The results of emissions profiles, performance tests, engineering analyses, design evaluations, flare compliance assessments, inspections and repairs, and calculations used to demonstrate initial compliance according to Tables 6 and 7 to this subpart. For performance tests, results must include descriptions of sampling and analysis procedures and quality assurance procedures. If performance test results are submitted electronically via CEDRI in accordance with §63.2386(g), the unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in the Notification of Compliance Status in lieu of the performance test results. The performance test results must be submitted to CEDRI by the date the Notification of Compliance Status is submitted.	Y	
63.2382(d)(2)(iii)	(iii) Descriptions of monitoring devices, monitoring frequencies, and the operating limits established during the initial compliance demonstrations, including data and calculations to support the levels you establish.	Y	
63.2382(d)(2)(iv)	(iv) Descriptions of worst-case operating and/or testing conditions for the control device(s).	Y	
63.2382(d)(2)(v)	(v) Identification of emission sources subject to overlapping requirements described in §63.2396 and the authority under which you will comply.	Y	
63.2382(d)(2)(vi)	(vi) The applicable information specified in §63.1039(a)(1) through (3) for all pumps and valves subject to the work practice standards for equipment leak components in Table 4 to this subpart, item 4.	Y	
63.2382(d)(2)(vii i)	(viii) The information specified in §63.2386(c)(10)(i), unless the information has already been submitted with the first Compliance report. If the information specified in §63.2386(c)(10)(i) has already been submitted with the first Compliance report, the information specified in §63.2386(d)(3) and (4), as applicable, shall be submitted instead.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2382(d)(3)	(3) <i>Submitting Notification of Compliance Status.</i> Beginning no later than the compliance dates specified in §63.2342(e), you must submit all subsequent Notification of Compliance Status reports to the EPA via CEDRI, which can be accessed through EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). If you claim some of the information required to be submitted via CEDRI is confidential business information (CBI), then submit a complete report, including information claimed to be CBI, to the EPA. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, U.S. EPA Mailroom (C404-02), Attention: Organic Liquids Distribution Sector Lead, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via EPA's CDX as described earlier in this paragraph. You may assert a claim of EPA system outage or force majeure for failure to timely comply with this reporting requirement provided you meet the requirements outlined in §63.2386(i) or (j), as applicable.	Y	
63.2386	What reports must I submit and when and what information is to be submitted in each?	Y	
63.2386(a)	(a) You must submit each report in subpart SS of this part, Table 11 to this subpart, Table 12 to this subpart, and in paragraphs (c) through (j) of this section that applies to you. You must also comply with the requirements specified in §63.2346(l).	Y	
63.2386(b)	(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report according to Table 11 to this subpart and by the dates shown in paragraphs (b)(1) through (3) of this section, by the dates shown in subpart SS of this part, and by the dates shown in Table 12 to this subpart, whichever are applicable.	Y	
63.2386(b)(1)(i)	(1)(i) The first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.2342 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your affected source in §63.2342.	Y	
63.2386(b)(1)(ii)	(ii) The first Compliance report must be postmarked no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.2342.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2386(b)(2)(i)	(2)(i) Each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.	Y	
63.2386(b)(2)(ii)	(ii) Each subsequent Compliance report must be postmarked no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.	Y	
63.2386(b)(3)	(3) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) and (2) of this section.	Y	
63.2386(c)	(c) <i>First Compliance report.</i> The first Compliance report must contain the information specified in paragraphs (c)(1) through (12) of this section, as well as the information specified in paragraph (d) of this section.	Y	
63.2386(c)(1)	(1) Company name and address.	Y	
63.2386(c)(2)	(2) Statement by a responsible official, including the official's name, title, and signature, certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete. If your report is submitted via CEDRI, the certifier's electronic signature during the submission process replaces this requirement.	Y	
63.2386(c)(3)	(3) Date of report and beginning and ending dates of the reporting period. You are no longer required to provide the date of report when the report is submitted via CEDRI.	Y	
63.2386(c)(4)	(4) Any changes to the information listed in §63.2382(d)(2) that have occurred since the submittal of the Notification of Compliance Status.	Y	
63.2386(c)(5)	(5) Except as specified in paragraph (c)(11) of this section, if you had a SSM during the reporting period and you took actions consistent with your SSM plan, the Compliance report must include the information described in §63.10(d)(5)(i).	Y	
63.2386(c)(6)	(6) If there are no deviations from any emission limitation or operating limit that applies to you and there are no deviations from the requirements for work practice standards, a statement that there were no deviations from the emission limitations, operating limits, or work practice standards during the reporting period.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2386(c)(8)(i)	(i) A description of the planned routine maintenance that is anticipated to be performed for the control device during the next 6 months. This description must include the type of maintenance necessary, planned frequency of maintenance, and lengths of maintenance periods.	Y	
63.2386(c)(8)(ii)	(ii) A description of the planned routine maintenance that was performed for the control device during the previous 6 months. This description must include the type of maintenance performed and the total number of hours during those 6 months that the control device did not meet the applicable emission limit due to planned routine maintenance.	Y	
63.2386(c)(10)(i)	(10)(i) A listing of all transfer racks (except those racks at which only unloading of organic liquids occurs) and of tanks greater than or equal to 18.9 cubic meters (5,000 gallons) that are part of the affected source but are not subject to any of the emission limitations, operating limits, or work practice standards of this subpart.	Y	
63.2386(c)(10)(i)	(ii) If the information specified in paragraph (c)(10)(i) of this section has already been submitted with the Notification of Compliance Status, the information specified in paragraphs (d)(3) and (4) of this section, as applicable, shall be submitted instead.	Y	
63.2386(c)(11)	(11) Beginning no later than the compliance dates specified in §63.2342(e), paragraph (c)(5) of this section no longer applies.	Y	
63.2386(c)(12)	(12) Beginning no later than the compliance dates specified in §63.2342(e), for bypass lines subject to the requirements §63.2378(e)(1) and (2), the compliance report must include the start date, start time, duration in hours, estimate of the volume of gas in standard cubic feet (scf), the concentration of organic HAP in the gas in ppmv and the resulting mass emissions of organic HAP in pounds that bypass a control device. For periods when the flow indicator is not operating, report the start date, start time, and duration in hours.	Y	
63.2386(d)	(d) <i>Subsequent Compliance reports.</i> Subsequent Compliance reports must contain the information in paragraphs (c)(1) through (9) and paragraph (c)(12) of this section and, where applicable, the information in paragraphs (d)(1) through (5) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2386(e)	(e) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 11 to this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission limitation in this subpart, we will consider submission of the Compliance report as satisfying any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report will not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the applicable title V permitting authority.	Y	
63.2386(f)	(f) Beginning no later than the compliance dates specified in §63.2342(e), you must submit all Compliance reports to the EPA via CEDRI, which can be accessed through EPA's CDX (https://cdx.epa.gov/). You must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri) for this subpart. The date report templates become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports under §§63.9(i) and 63.10(a), the report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. If you claim some of the information required to be submitted via CEDRI is CBI, submit a complete report, including information claimed to be CBI, to the EPA. The report must be generated using the appropriate form on the CEDRI website or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, U.S. EPA Mailroom (C404-02), Attention: Organic Liquids Distribution Sector Lead, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via EPA's CDX as described earlier in this paragraph. You may assert a claim of EPA system outage or force majeure for failure to timely comply with this reporting requirement provided you meet the requirements outlined in paragraph (i) or (j) of this section, as applicable.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2386(g)(3)	(3) <i>CBI</i> . If you claim some of the information submitted under paragraph (g)(1) or (2) of this section is CBI, then you must submit a complete file, including information claimed to be CBI, to the EPA. The file must be generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404-02, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via EPA's CDX as described in paragraphs (g)(1) and (2) of this section.	Y	
63.2386(i)	(i) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of EPA system outage for failure to timely comply with the reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (i)(1) through (7) of this section.	Y	
63.2386(i)(1)	(1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA's CEDRI or CDX systems.	Y	
63.2386(i)(2)	(2) The outage must have occurred within the period of time beginning five business days prior to the date that the submission is due.	Y	
63.2386(i)(3)	(3) The outage may be planned or unplanned.	Y	
63.2386(i)(4)	(4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.	Y	
63.2386(i)(5)	(5) You must provide to the Administrator a written description identifying:	Y	
63.2386(i)(5)(i)	(i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable;	Y	
63.2386(i)(5)(ii)	(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage;	Y	
63.2386(i)(5)(iii)	(iii) Measures taken or to be taken to minimize the delay in reporting; and	Y	
63.2386(i)(5)(iv)	(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.	Y	
63.2386(i)(6)	(6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2386(i)(7)	(7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.	Y	
63.2386(j)	(j) If you are required to electronically submit a report through CEDRI in the EPA's CDX, you may assert a claim of force majeure for failure to timely comply with the reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (j)(1) through (5) of this section.	Y	
63.2386(j)(1)	(1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For the purposes of this paragraph, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage).	Y	
63.2386(j)(2)	(2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting.	Y	
63.2386(j)(3)	(3) You must provide to the Administrator:	Y	
63.2386(j)(3)(i)	(i) A written description of the force majeure event;	Y	
63.2386(j)(3)(ii)	(ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event;	Y	
63.2386(j)(3)(iii)	(iii) Measures taken or to be taken to minimize the delay in reporting; and	Y	
63.2386(j)(3)(iv)	(iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported.	Y	
63.2386(j)(4)	(4) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator.	Y	
63.2386(j)(5)	(5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs.	Y	
63.2390	What records must I keep?	Y	

**Table IV – J.1
 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2390(a)	(a) For each emission source identified in §63.2338 that does not require control under this subpart, you must keep all records identified in §63.2343.	Y	
63.2390(f)	(f) Beginning no later than the compliance dates specified in §63.2342(e), for each deviation from an emission limitation, operating limit, and work practice standard specified in paragraph (a) of this section, you must keep a record of the information specified in paragraph (f)(1) through (3) of this section.	Y	
63.2390(f)(1)	(1) In the event that an affected unit fails to meet an applicable standard, record the number of failures. For each failure record the date, time and duration of each failure.	Y	
63.2390(f)(2)	(2) For each failure to meet an applicable standard, record and retain a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions.	Y	
63.2390(f)(3)	(3) Record actions taken to minimize emissions in accordance with §63.2350(d) and any corrective actions taken to return the affected unit to its normal or usual manner of operation.	Y	
63.2394	In what form and how long must I keep my records?	Y	
63.2394(a)	(a) Your records must be in a form suitable and readily available for expeditious inspection and review according to §63.10(b)(1), including records stored in electronic form at a separate location.	Y	
63.2394(b)	(b) As specified in §63.10(b)(1), you must keep your files of all information (including all reports and notifications) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.	Y	
63.2394(c)	(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You may keep the records off site for the remaining 3 years.	Y	
63.2396	What compliance options do I have if part of my plant is subject to both this subpart and another subpart?	Y	

Table IV – J.1
Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2396(c)(1)	<i>(c) Compliance with other regulations for equipment leak components. (1) After the compliance dates specified in §63.2342, if you have pumps, valves, or sampling connections that are subject to a 40 CFR part 60 subpart, and those pumps, valves, and sampling connections are in OLD operation and in organic liquids service, as defined in this subpart, you must comply with the provisions of each subpart for those equipment leak components.</i>	Y	
63.2396(c)(2)	<i>(2) After the compliance dates specified in §63.2342, if you have pumps, valves, or sampling connections subject to subpart GGG of this part, and those pumps, valves, and sampling connections are in OLD operation and in organic liquids service, as defined in this subpart, you may elect to comply with the provisions of this subpart for all such equipment leak components. You must identify in the Notification of Compliance Status required by §63.2382(b) the provisions with which you will comply.</i>	Y	
63.2396(e)(1)	<i>(e) Overlap with other regulations for monitoring, recordkeeping, and reporting—(1) Control devices. After the compliance dates specified in §63.2342, if any control device subject to this subpart is also subject to monitoring, recordkeeping, and reporting requirements of another 40 CFR part 63 subpart, the owner or operator must be in compliance with the monitoring, recordkeeping, and reporting requirements of this subpart EEEE. If complying with the monitoring, recordkeeping, and reporting requirements of the other subpart satisfies the monitoring, recordkeeping, and reporting requirements of this subpart, the owner or operator may elect to continue to comply with the monitoring, recordkeeping, and reporting requirements of the other subpart. In such instances, the owner or operator will be deemed to be in compliance with the monitoring, recordkeeping, and reporting requirements of this subpart. The owner or operator must identify the other subpart being complied with in the Notification of Compliance Status required by §63.2382(b).</i>	Y	
40 CFR 63 Subpart FFFF	NESHAPS - Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2430	This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for miscellaneous organic chemical manufacturing. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits, operating limits, and work practice standards.	Y	
63.2435	Am I subject to the requirements in this subpart?	Y	

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 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2435(a)	(a) You are subject to the requirements in this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at, or are part of, a major source of hazardous air pollutants (HAP) emissions as defined in section 112(a) of the Clean Air Act (CAA).	Y	
63.2435(b)	(b) An MCPU includes equipment necessary to operate a miscellaneous organic chemical manufacturing process, as defined in §63.2550, that satisfies all of the conditions specified in paragraphs (b)(1) through (3) of this section. An MCPU also includes any assigned storage tanks and transfer racks; equipment in open systems that is used to convey or store water having the same concentration and flow characteristics as wastewater; and components such as pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, and instrumentation systems that are used to manufacture any material or family of materials described in paragraphs (b)(1)(i) through (v) of this section.	Y	
63.2435(b)(1)	(1) The MCPU produces material or family of materials that is described in paragraph (b)(1)(i), (ii), (iii), (iv), or (v) of this section. (i) An organic chemical(s) classified using the 1987 version of SIC code 282, 283, 284, 285, 286, 287, 289, or 386, except as provided in paragraph (c)(5) of this section. (ii) An organic chemical(s) classified using the 1997 version of NAICS code 325, except as provided in paragraph (c)(5) of this section. (iii) Quaternary ammonium compounds and ammonium sulfate produced with caprolactam. (iv) Hydrazine. (v) Organic solvents classified in any of the SIC or NAICS codes listed in paragraph (b)(1)(i) or (ii) of this section that are recovered using nondedicated solvent recovery operations.	Y	
63.2435(b)(2)	(2) The MCPU processes, uses, or generates any of the organic HAP listed in section 112(b) of the CAA or hydrogen halide and halogen HAP, as defined in §63.2550.	Y	
63.2435(b)(3)	(3) The MCPU is not an affected source or part of an affected source under another subpart of this part 63, except for process vents from batch operations within a chemical manufacturing process unit (CMPU), as identified in §63.100(j)(4). For this situation, the MCPU is the same as the CMPU as defined in §63.100, and you are subject only to the requirements for batch process vents in this subpart.	Y	
63.2435(c)	(c) The requirements in this subpart do not apply to the operations specified in paragraphs (c)(1) through (7) of this section.	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2435(c)(2)	(2) The manufacture of ammonium sulfate as a by-product, if the slurry entering the by-product manufacturing process contains 50 parts per million by weight (ppmw) HAP or less or 10 ppmw benzene or less. You must retain information, data, and analysis to document the HAP concentration in the entering slurry in order to claim this exemption.	Y	
63.2435(d)	(d) If the predominant use of a transfer rack loading arm or storage tank (including storage tanks in series) is associated with a miscellaneous organic chemical manufacturing process, and the loading arm or storage tank is not part of an affected source under a subpart of this part 63, then you must assign the loading arm or storage tank to the MCPU for that miscellaneous organic chemical manufacturing process. If the predominant use cannot be determined, then you may assign the loading arm or storage tank to any MCPU that shares it and is subject to this subpart. If the use varies from year to year, then you must base the determination on the utilization that occurred during the year preceding November 10, 2003 or, if the loading arm or storage tank was not in operation during that year, you must base the use on the expected use for the first 5-year period after startup. You must include the determination in the notification of compliance status report specified in §63.2520(d). You must redetermine the primary use at least once every 5 years, or any time you implement emissions averaging or pollution prevention after the compliance date.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	(a) This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	
63.2440(b)	(b) The miscellaneous organic chemical manufacturing affected source is the facilitywide collection of MCPU and heat exchange systems, wastewater, and waste management units that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2440(c)	(c) A new affected source is described by either paragraph (c)(1) or (2) of this section.	Y	
63.2440(c)(1)	(1) Each affected source defined in paragraph (b) of this section for which you commenced construction or reconstruction after April 4, 2002, and you meet the applicability criteria at the time you commenced construction or reconstruction.	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2440(c)(2)	(2) Each dedicated MCPU that has the potential to emit 10 tons per year (tpy) of any one HAP or 25 tpy of combined HAP, and you commenced construction or reconstruction of the MCPU after April 4, 2002. For the purposes of this paragraph, an MCPU is an affected source in the definition of the term “reconstruction” in §63.2.	Y	
63.2440(d)	(d) An MCPU that is also a CMPU under §63.100 is reconstructed for the purposes of this subpart if, and only if, the CMPU meets the requirements for reconstruction in §63.100(l)(2).	Y	
63.2445	When do I have to comply with this subpart?	Y	
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(c)	(c) You must meet the notification requirements in §63.2515 according to the dates specified in that section and in subpart A of this part 63. Some of the notifications must be submitted before you are required to comply with the emission limits, operating limits, and work practice standards in this subpart.	Y	
63.2445(g)	(g) All affected sources that commenced construction or reconstruction on or before December 17, 2019, must be in compliance with the requirements listed in paragraphs (g)(1) through (7) of this section upon initial startup or on August 12, 2023, whichever is later. All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with the requirements listed in paragraphs (g)(1) through (7) of this section upon initial startup, or on August 12, 2020 whichever is later.	Y	
63.2445(g)(1)	(1) The general requirements specified in §63.2450(a)(2), (e)(4) through (7), (g)(6) and (7), (i)(3), (j)(5)(ii) and (6), (k)(1)(ii), (7), and (8), (t), and (u), §63.2520(d)(3), (e)(11) through (13), §63.2525(m) through (o), and §63.2535(m).	Y	
63.2445(g)(4)	(4) For equipment leaks and pressure relief devices, the requirements specified in §63.2480(e) and (f), §63.2520(d)(4) and (e)(14), and §63.2525(q).	Y	
63.2445(g)(7)	(7) The other notification, reports, and records requirements specified in §63.2500(g), §63.2520(e)(5)(ii)(D), §63.2520(e)(5)(iii)(M) and (N), and §63.2525(l) and (u).	Y	
63.2450	What are my general requirements for complying with this subpart?	Y	
63.2450(a)	(a) You must comply with paragraphs (a)(1) and (2) of this section.	Y	

**Table IV – J.1
 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(a)(1)	(1) Except as specified in paragraph (a)(2) of this section, you must be in compliance with the emission limits and work practice standards in tables 1 through 7 to this subpart at all times, except during periods of startup, shutdown, and malfunction (SSM), and you must meet the requirements specified in §63.2455 through 63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505), except as specified in paragraphs (b) through (s) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.2515, 63.2520, and 63.2525.	Y	
63.2450(a)(2)	(2) Beginning no later than the compliance dates specified in §63.2445(g), paragraph (a)(1) of this section no longer applies. Instead, you must be in compliance with the emission limits and work practice standards in tables 1 through 7 to this subpart at all times, and you must meet the requirements specified in §63.2455 through 63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505), except as specified in paragraphs (b) through (v) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.2515, 63.2520, and 63.2525.	Y	
63.2450(m)	(m) Reporting.	Y	
63.2450(m)(1)	(1) When §63.2455 through 63.2490 reference other subparts in this part 63 that use the term “periodic report,” it means “compliance report” for the purposes of this subpart. The compliance report must include the information specified in §63.2520(e), as well as the information specified in referenced subparts.	Y	
63.2450(m)(2)	(2) When there are conflicts between this subpart and referenced subparts for the due dates of reports required by this subpart, reports must be submitted according to the due dates presented in this subpart.	Y	
63.2450(p)	(p) Except as specified in paragraph (t) of this section, opening a safety device, as defined in §63.2550, is allowed at any time conditions require it to avoid unsafe conditions.	Y	

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 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2450(u)	(u) General Duty. Beginning no later than the compliance dates specified in §63.2445(g), at all times, you must 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. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	
63.2480	What requirements must I meet for equipment leaks?	Y	
63.2480(a)	You must meet each requirement in Table 6 to this subpart that applies to your equipment leaks, except as specified in paragraphs (b) through (f) of this section.	Y	
63.2480(b)(7)	(7) For each piece of equipment that is subject to table 6 to this subpart and is also subject to periodic monitoring with EPA Method 21 of 40 CFR part 60, appendix A-7 and is added to an affected source after December 17, 2019, or replaces equipment at an affected source after December 17, 2019, you must initially monitor for leaks within 30 days after initial startup of the equipment. Equipment that is designated as unsafe- or difficult-to-monitor is not subject to this paragraph.	Y	
63.2480(d)	(d) The provisions of this section do not apply to bench-scale processes, regardless of whether the processes are located at the same plant site as a process subject to the provisions of this subpart.	Y	
63.2480(e)	(e) Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of 40 CFR subpart F. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(1)	(1) Operating requirements. Except during a pressure release, operate each pressure relief device in organic HAP gas or vapor service with an instrument reading of less than 500 ppm above background as measured by the method in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F.	Y	
63.2480(e)(2)	(2) Pressure release requirements. For pressure relief devices in organic HAP gas or vapor service, you must comply with the applicable requirements paragraphs (e)(2)(i) through (iii) of this section following a pressure release.	Y	
63.2480(e)(2)(i)	(i) If the pressure relief device does not consist of or include a rupture disk, conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(2)(ii)	(ii) If the pressure relief device includes a rupture disk, either comply with the requirements in paragraph (e)(2)(i) of this section (and do not replace the rupture disk) or install a replacement disk as soon as practicable after a pressure release, but no later than 5 calendar days after the pressure release. You must conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(2)(iii)	(iii) If the pressure relief device consists only of a rupture disk, install a replacement disk as soon as practicable after a pressure release, but no later than 5 calendar days after the pressure release. You must not initiate startup of the equipment served by the rupture disk until the rupture disc is replaced. You must conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(3)	(3) Pressure release management. Except as specified in paragraphs (e)(4) and (5) of this section, you must comply with the requirements specified in paragraphs (e)(3)(i) through (v) of this section for all pressure relief devices in organic HAP service.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(3)(i)	(i) You must equip each affected pressure relief device with a device(s) or use a monitoring system that is capable of: (A) Identifying the pressure release; (B) Recording the time and duration of each pressure release; and (C) Notifying operators immediately that a pressure release is occurring. The device or monitoring system must be either specific to the pressure relief device itself or must be associated with the process system or piping, sufficient to indicate a pressure release to the atmosphere. Examples of these types of devices and systems include, but are not limited to, a rupture disk indicator, magnetic sensor, motion detector on the pressure relief valve stem, flow monitor, or pressure monitor.	Y	
63.2480(e)(3)(ii)	(ii) You must apply at least three redundant prevention measures to each affected pressure relief device and document these measures. Examples of prevention measures include: (A) Flow, temperature, liquid level and pressure indicators with deadman switches, monitors, or automatic actuators. Independent, non-duplicative systems within this category count as separate redundant prevention measures. (B) Documented routine inspection and maintenance programs and/or operator training (maintenance programs and operator training may count as only one redundant prevention measure). (C) Inherently safer designs or safety instrumentation systems. (D) Deluge systems. (E) Staged relief system where the initial pressure relief device (with lower set release pressure) discharges to a flare or other closed vent system and control device.	Y	
63.2480(e)(3)(iii)	(iii) If any affected pressure relief device releases to atmosphere as a result of a pressure release event, you must perform root cause analysis and corrective action analysis according to the requirement in paragraph (e)(6) of this section and implement corrective actions according to the requirements in paragraph (e)(7) of this section. You must also calculate the quantity of organic HAP released during each pressure release event and report this quantity as required in §63.2520(e)(15). Calculations may be based on data from the pressure relief device monitoring alone or in combination with process parameter monitoring data and process knowledge.	Y	
63.2480(e)(3)(iv)	(iv) You must determine the total number of release events that occurred during the calendar year for each affected pressure relief device separately. You must also determine the total number of release events for each pressure relief device for which the root cause analysis concluded that the root cause was a force majeure event, as defined in §63.2550.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(3)(v)	(v) Except for pressure relief devices described in paragraphs (e)(4) and (5) of this section, the following release events from an affected pressure relief device are a deviation of the pressure release management work practice standards. (A) Any release event for which the root cause of the event was determined to be operator error or poor maintenance. (B) A second release event not including force majeure events from a single pressure relief device in a 3 calendar year period for the same root cause for the same equipment. (C) A third release event not including force majeure events from a single pressure relief device in a 3 calendar year period for any reason.	Y	
63.2480(e)(4)	(4) Pressure relief devices routed to a control device, process, fuel gas system, or drain system. (i) If all releases and potential leaks from a pressure relief device are routed through a closed vent system to a control device, back into the process, to the fuel gas system, or to a drain system, then you are not required to comply with paragraph (e)(1), (2), or (3) of this section.	Y	
63.2480(e)(4)(ii)	(ii) Before the compliance dates specified in §63.2445(g), both the closed vent system and control device (if applicable) referenced in paragraph (e)(4)(i) of this section must meet the applicable requirements specified in §63.982(b) and (c)(2) of subpart SS. Beginning no later than the compliance dates specified in §63.2445(g), both the closed vent system and control device (if applicable) referenced in paragraph (e)(4)(i) of this section must meet the applicable requirements specified in §63.982(c)(2), §63.983, and §63.2450(e)(4) through (6).	Y	
63.2480(e)(4)(iii)	(iii) The drain system (if applicable) referenced in paragraph (e)(4)(i) must meet the applicable requirements specified in §63.2485(e).	Y	
63.2480(e)(5)	(5) Pressure relief devices exempted from pressure release management requirements. The following types of pressure relief devices are not subject to the pressure release management requirements in paragraph (e)(3) of this section. (i) Pressure relief devices in heavy liquid service, as defined in §63.1020 of subpart UU or §65.103(f) of 40 CFR subpart F. (ii) Thermal expansion relief valves. (iii) Pressure relief devices on mobile equipment. (iv) Pilot-operated pressure relief devices where the primary release valve is routed through a closed vent system to a control device or back into the process, to the fuel gas system, or to a drain system. (v) Balanced bellows pressure relief devices where the primary release valve is routed through a closed vent system to a control device or back into the process, to the fuel gas system, or to a drain system.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(6)	(6) Root cause analysis and corrective action analysis. A root cause analysis and corrective action analysis must be completed as soon as possible, but no later than 45 days after a release event. Special circumstances affecting the number of root cause analyses and/or corrective action analyses are provided in paragraphs (e)(6)(i) through (iii) of this section.	Y	
63.2480(e)(6)(i)	(i) You may conduct a single root cause analysis and corrective action analysis for a single emergency event that causes two or more pressure relief devices installed on the same equipment to release.	Y	
63.2480(e)(6)(ii)	(ii) You may conduct a single root cause analysis and corrective action analysis for a single emergency event that causes two or more pressure relief devices to release, regardless of the equipment served, if the root cause is reasonably expected to be a force majeure event, as defined in §63.2550.	Y	
63.2480(e)(6)(iii)	(iii) Except as provided in paragraphs (e)(6)(i) and (ii) of this section, if more than one pressure relief device has a release during the same time period, an initial root cause analysis must be conducted separately for each pressure relief device that had a release. If the initial root cause analysis indicates that the release events have the same root cause(s), the initially separate root cause analyses may be recorded as a single root cause analysis and a single corrective action analysis may be conducted.	Y	
63.2480(e)(7)	(7) Corrective action implementation. You must conduct a root cause analysis and corrective action analysis as specified in paragraphs (e)(3)(iii) and (e)(6) of this section, and you must implement the corrective action(s) identified in the corrective action analysis in accordance with the applicable requirements in paragraphs (e)(7)(i) through (iii) of this section.	Y	
63.2480(e)(7)(i)	(i) All corrective action(s) must be implemented within 45 days of the event for which the root cause and corrective action analyses were required or as soon thereafter as practicable. If you conclude that no corrective action should be implemented, you must record and explain the basis for that conclusion no later than 45 days following the event.	Y	
63.2480(e)(7)(ii)	(ii) For corrective actions that cannot be fully implemented within 45 days following the event for which the root cause and corrective action analyses were required, you must develop an implementation schedule to complete the corrective action(s) as soon as practicable.	Y	
63.2480(e)(7)(iii)	(iii) No later than 45 days following the event for which a root cause and corrective action analyses were required, you must record the corrective action(s) completed to date, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(8)	(e) Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of this chapter. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	
63.2480(f)	(f) Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (f)(1) through (18) of this section do not apply when demonstrating compliance with this section. (4) The phrase “may be included as part of the startup, shutdown, and malfunction plan, as required by the referencing subpart for the source, or” from § 63.1024(f)(4)(i) of subpart UU. (5) §63.1026(b)(3) of subpart UU. (6) The phrase “(except periods of startup, shutdown, or malfunction)” from §63.1026(e)(1)(ii)(A) of subpart UU. (7) The phrase “(except during periods of startup, shutdown, or malfunction)” from §63.1028(e)(1)(i)(A) of subpart UU. (8) The phrase “(except during periods of startup, shutdown, or malfunction)” from §63.1031(b)(1) of subpart UU. (16) The phrase “Except for pressure relief devices needed for safety purposes, low leg drains, high point bleeds, analyzer vents, and opened valves or lines” in §65.143(a)(3) of 40 CFR subpart G. (xiv) The reference to §65.111(b) in §65.102(a) of 40 CFR subpart F no longer applies. (xv) In §65.103(b)(3) of 40 CFR subpart F, replace the reference to §65.111(d) with §63.2480(e)(4). (xvi) In §65.103(b)(4) of 40 CFR subpart F, replace the reference to §63.111(e) with §63.2480(e)(2)(ii). (xvii) The reference to §65.111(b) and (c) in §65.104(a)(1)(iv) of 40 CFR subpart F no longer applies. Instead comply with the §§63.2480(e)(1) and (2). (xviii) In the introductory paragraph of §65.104(c) of 40 CFR subpart F and §65.104(c)(4) of 40 CFR subpart F, replace the reference to §63.111(b) to §63.2480(e)(1). (xix) In §65.119(c)(5) of 40 CFR subpart F, replace the reference to §65.111(c)(3) with §§63.2480(e)(2) and replace the reference to 65.111(e) with §§63.2480(e)(2)(ii) and (iii). (xx) The information required to be reported under §65.120(b)(4) of 40 CFR subpart F is now required to be reported under §63.2520(e)(15)(i) and (ii).		
63.2485(e)	(e) Individual drain systems. The provisions of §63.136(e)(3) apply except as specified in paragraph (e)(1) of this section.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(e)(1)	(1) A sewer line connected to drains that are in compliance with §63.136(e)(1) may be vented to the atmosphere, provided that the sewer line entrance to the first downstream junction box is water sealed and the sewer line vent pipe is designed as specified in §63.136(e)(2)(ii)(A).	Y	
63.2485(f)	(f) Closed-vent system requirements. Except as specified in §63.2450(e)(6), when §63.148(k) refers to closed vent systems that are subject to the requirements of § 63.172, the requirements of either § 63.172 or §63.1034 apply for the purposes of this subpart.	Y	
63.2485(l)	(l) Requirements for liquid streams in open systems.	Y	
63.2485(l)(1)	(1) References in §63.149 to §63.100(b) mean §63.2435(b) for the purposes of this subpart.	Y	
63.2485(l)(2)	(2) When §63.149(e) refers to 40 CFR 63.100(l) (1) or (2), §63.2445(a) applies for the purposes of this subpart.	Y	
63.2485(l)(3)	(3) When §63.149 uses the term “chemical manufacturing process unit,” the term “MCPU” applies for the purposes of this subpart.	Y	
63.2485(l)(4)	(4) When §63.149(e)(1) refers to characteristics of water that contain compounds in Table 9 to 40 CFR part 63, subpart G, the characteristics specified in paragraphs (c) (1) through (3) of this section apply for the purposes of this subpart.	Y	
63.2485(l)(5)	(5) When §63.149(e)(2) refers to characteristics of water that contain compounds in Table 9 to 40 CFR part 63, subpart G, the characteristics specified in paragraph (c)(2) of this section apply for the purposes of this subpart.	Y	
63.2500	How do I comply with emissions averaging?	Y	
63.2500(a)	(a) For an existing source, you may elect to comply with the percent reduction emission limitations in Tables 1, 2, 4, 5, and 7 to this subpart by complying with the emissions averaging provisions specified in §63.150, except as specified in paragraphs (b) through (g) of this section.	Y	
63.2500(c)	(c) References in §63.150 to §§63.112 through 63.130 mean the corresponding requirements in §§63.2450 through 63.2490, including applicable monitoring, recordkeeping, and reporting.	Y	
63.2500(d)	(d) References to “periodic reports” in §63.150 mean “compliance report” for the purposes of this subpart.	Y	
63.2500(g)	(g) Beginning no later than the compliance dates specified in §63.2445(g), §63.150(f)(2) does not apply when demonstrating compliance with this section.	Y	
63.2515	What notifications must I submit and when?	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2515(a)	(a) Except as specified in paragraph (d) of this section, you must submit all of the notifications in §§63.6(h)(4) and (5), 63.7(b) and (c), 63.8(e), (f)(4) and (6), and 63.9(b) through (h) of subpart A that apply to you by the dates specified.	Y	
63.2515(b)	(b) Initial notification. As specified in §63.9(b)(2), if you startup your affected source before November 10, 2003, you must submit an initial notification not later than 120 calendar days after November 10, 2003.	Y	
63.2515(b)(2)	(2) As specified in §63.9(b)(3), if you startup your new affected source on or after November 10, 2003, you must submit an initial notification not later than 120 calendar days after you become subject to this subpart.	Y	
63.2515(d)	(d) Supplement to Notification of Compliance Status. You must also submit supplements to the Notification of Compliance Status as specified in §63.2520(d)(3) through (5) of this section.	Y	
63.2520	What reports must I submit and when?	Y	
63.2520(a)	(a) You must submit each report in Table 11 to this subpart that applies to you.	Y	
63.2520(b)	(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in table 11 to this subpart and according to paragraphs (b)(1) through (5) of this section.	Y	
63.2520(b)(1)	(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.2445 and ending on June 30 or December 31, whichever date is the first date following the end of the first 6 months after the compliance date that is specified for your affected source in §63.2445.	Y	
63.2520(b)(2)	(2) The first compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the first reporting period specified in paragraph (b)(1) of this section.	Y	
63.2520(b)(3)	(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.	Y	
63.2520(b)(4)	(4) Each subsequent compliance report must be postmarked or delivered no later than August 31 or February 28, whichever date is the first date following the end of the semiannual reporting period.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(b)(5)	(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.	Y	
63.2520(c)	(c) Precompliance report. You must submit a precompliance report to request approval for any of the items in paragraphs (c)(1) through (8) of this section. We will either approve or disapprove the report within 90 days after we receive it. If we disapprove the report, you must still be in compliance with the emission limitations and work practice standards in this subpart by the compliance date. To change any of the information submitted in the report, you must notify us 60 days before the planned change is to be implemented.	Y	
63.2520(c)(1)	(1) Requests for approval to set operating limits for parameters other than those specified in §63.2455 through 63.2485 and referenced therein. Alternatively, you may make these requests according to §63.8(f).	Y	
63.2520(d)	(d) Notification of compliance status report. You must submit a notification of compliance status report according to the schedule in paragraph (d)(1) of this section, and the notification of compliance status report must contain the information specified in paragraphs (d)(2) through (5) of this section.	Y	
63.2520(d)(1)	(1) You must submit the notification of compliance status report no later than 150 days after the applicable compliance date specified in §63.2445.	Y	
63.2520(d)(2)	(2) The notification of compliance status report must include the information in paragraphs (d)(2)(i) through (ix) of this section.	Y	
63.2520(d)(2)(i)	(i) The results of any applicability determinations, emission calculations, or analyses used to identify and quantify HAP usage or HAP emissions from the affected source.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(d)(2)(ii)	(ii) The results of emissions profiles, performance tests, engineering analyses, design evaluations, flare compliance assessments, inspections and repairs, and calculations used to demonstrate initial compliance according to §63.2455 through 63.2485. For performance tests, results must include descriptions of sampling and analysis procedures and quality assurance procedures. If the performance test report is submitted electronically through the EPA's CEDRI in accordance with paragraph (f) of this section, the process unit(s) tested, the pollutant(s) tested, and the date that such performance test was conducted may be submitted in the notification of compliance status report in lieu of the performance test results. The performance test results must be submitted to CEDRI by the date the notification of compliance status report is submitted.	Y	
63.2520(d)(2)(iii)	(iii) Descriptions of monitoring devices, monitoring frequencies, and the operating limits established during the initial compliance demonstrations, including data and calculations to support the levels you establish.	Y	
63.2520(d)(2)(iv)	(iv) All operating scenarios.	Y	
63.2520(d)(2)(vii)	(vii) The information specified in §63.1039(a)(1) through (3) for each process subject to the work practice standards for equipment leaks in Table 6 to this subpart.	Y	
63.2520(d)(4)(i)	A description of the monitoring system to be implemented, including the relief devices and process parameters to be monitored, and a description of the alarms or other methods by which operators will be notified of a pressure release.	Y	
63.2520(d)(4)(ii)	(A description of the prevention measures to be implemented for each affected pressure relief device.	Y	
63.2520(d)(5)	For process vents, storage tanks, and equipment leaks subject to the requirements of §63.2493, you must also submit the information in this paragraph in a supplement to the Notification of Compliance Status within 150 days after the first applicable compliance date. The supplement to the Notification of Compliance Status must identify all process vents, storage tanks, and equipment that are in ethylene oxide service as defined in §63.2550, the method(s) used to control ethylene oxide emissions from each process vent and storage tank (i.e., use of a flare, scrubber, or other control device), the method(s) used to control ethylene oxide emissions from equipment (i.e., subpart UU or subpart H of this part, or 40 CFR part 65, subpart F), and the information specified in paragraphs (d)(5)(i) through (iii) of this section.	Y	
63.2520(d)(5)(iii)	For equipment, include the percent ethylene oxide content of the process fluid and the method used to determine it.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)	<p>Compliance report. The compliance report must contain the information specified in paragraphs (e)(1) through (17) of this section. On and after August 12, 2023 or once the reporting template for this subpart has been available on the CEDRI website for 1 year, whichever date is later, you must submit all subsequent reports to the EPA via the CEDRI, which can be accessed through the EPA's CDX (https://cdx.epa.gov/). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Anything submitted using CEDRI cannot later be claimed to be CBI. You must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri) for this subpart. The date report templates become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports under §§63.9(i) and 63.10(a) of subpart A, the report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim, submit a complete report, including information claimed to be CBI, to the EPA. The report must be generated using the appropriate form on the CEDRI website or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, CORE CBI Office, U.S. EPA Mailroom (C404-02), Attention: Miscellaneous Organic Chemical Manufacturing Sector Lead, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described in this paragraph (e). All CBI claims must be asserted at the time of submission. Furthermore under CAA section 114(c) emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. You may assert a claim of EPA system outage or force majeure for failure to timely comply with the reporting requirement in this paragraph (e) provided you meet the requirements outlined in paragraph (i) or (j) of this section, as applicable.</p>	Y	
63.2520(e)(1)	Company name and address.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)(2)	Statement by a responsible official with that official's name, title, and signature, certifying the accuracy of the content of the report. If your report is submitted via CEDRI, the certifier's electronic signature during the submission process replaces this requirement.	Y	
63.2520(e)(3)	Date of report and beginning and ending dates of the reporting period. You are no longer required to provide the date of report when the report is submitted via CEDRI.	Y	
63.2520(e)(4)	For each SSM during which excess emissions occur, the compliance report must include records that the procedures specified in your startup, shutdown, and malfunction plan (SSMP) were followed or documentation of actions taken that are not consistent with the SSMP, and include a brief description of each malfunction. On and after August 12, 2023, this paragraph (e)(4) no longer applies; however, for historical compliance purposes, a copy of the plan must be retained and available on-site for five years after August 12, 2023.	Y	
63.2520(e)(5)	The compliance report must contain the information on deviations, as defined in §63.2550, according to paragraphs (e)(5)(i), (ii), (iii), and (iv) of this section.	Y	
63.2520(e)(5)(i)	If there are no deviations from any emission limit, operating limit or work practice standard specified in this subpart, include a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)(5)(ii)	For each deviation from an emission limit, operating limit, and work practice standard that occurs at an affected source where you are not using a continuous monitoring system (CMS) to comply with the emission limit or work practice standard in this subpart, you must include the information in paragraphs (e)(5)(ii)(A) through (D) of this section. This includes periods of SSM. (A) The total operating time in hours of the affected source during the reporting period. (B) Except as specified in paragraph (e)(5)(ii)(D) of this section, information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. (C) Operating logs of processes with batch vents from batch operations for the day(s) during which the deviation occurred, except operating logs are not required for deviations of the work practice standards for equipment leaks. (D) Beginning no later than the compliance dates specified in §63.2445(g), paragraph (e)(5)(ii)(B) of this section no longer applies. Instead, report information for each deviation to meet an applicable standard. For each instance, report the start date, start time and duration in hours of each deviation. For each deviation, the report must include a list of the affected sources or equipment, an estimate of the quantity in pounds of each regulated pollutant emitted over any emission limit, a description of the method used to estimate the emissions, the cause of the deviation (including unknown cause, if applicable), as applicable, and the corrective action taken.	Y	
63.2520(e)(7)	Include each new operating scenario which has been operated since the time period covered by the last compliance report and has not been submitted in the notification of compliance status report or a previous compliance report. For each new operating scenario, you must report the information specified in §63.2525(b) and provide verification that the operating conditions for any associated control or treatment device have not been exceeded and that any required calculations and engineering analyses have been performed. For the purposes of this paragraph, a revised operating scenario for an existing process is considered to be a new operating scenario.	Y	
63.2520(e)(9)	Except as specified in §63.2450(e)(4), §63.2480(f), §63.2485(p) and (q), and paragraph (t) of this section, applicable records and information for periodic reports as specified in referenced subparts F, G, H, SS, UU, WW, and GGG of this part and subpart F of 40 CFR part 65.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)(10)	Notification of process change. (i) Except as specified in paragraph (e)(10)(ii) of this section, whenever you make a process change, or change any of the information submitted in the notification of compliance status report or a previous compliance report, that is not within the scope of an existing operating scenario, you must document the change in your compliance report. A process change does not include moving within a range of conditions identified in the standard batch, and a nonstandard batch does not constitute a process change. The notification must include all of the information in paragraphs (e)(10)(i)(A) through (C) of this section. (A) A description of the process change. (B) Revisions to any of the information reported in the original notification of compliance status report under paragraph (d) of this section. (C) Information required by the notification of compliance status report under paragraph (d) of this section for changes involving the addition of processes or equipment at the affected source. (ii) You must submit a report 60 days before the scheduled implementation date of any of the changes identified in paragraph (e)(10)(ii)(A), (B), or (C) of this section. (A) Any change to the information contained in the precompliance report. (B) A change in the status of a control device from small to large. (C) A change from Group 2 to Group 1 for any emission point except for batch process vents that meet the conditions specified in §63.2460(b)(6)(i).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(h)	<p>Claims of EPA system outage. If you are required to electronically submit a report through CEDRI in the EPA’s CDX, you may assert a claim of EPA system outage for failure to timely comply with the reporting requirement. To assert a claim of EPA system outage, you must meet the requirements outlined in paragraphs (h)(1) through (7) of this section. (1) You must have been or will be precluded from accessing CEDRI and submitting a required report within the time prescribed due to an outage of either the EPA’s CEDRI or CDX systems. (2) The outage must have occurred within the period of time beginning five business days prior to the date that the submission is due. (3) The outage may be planned or unplanned. (4) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting. (5) You must provide to the Administrator a written description identifying: (i) The date(s) and time(s) when CDX or CEDRI was accessed and the system was unavailable; (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to EPA system outage; (iii) A description of measures taken or to be taken to minimize the delay in reporting; and (iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported. (6) The decision to accept the claim of EPA system outage and allow an extension to the reporting deadline is solely within the discretion of the Administrator. (7) In any circumstance, the report must be submitted electronically as soon as possible after the outage is resolved.</p>	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(i)	<p>Claims of force majeure. If you are required to electronically submit a report through CEDRI in the EPA’s CDX, you may assert a claim of force majeure for failure to timely comply with the reporting requirement. To assert a claim of force majeure, you must meet the requirements outlined in paragraphs (i)(1) through (5) of this section. (1) You may submit a claim if a force majeure event is about to occur, occurs, or has occurred or there are lingering effects from such an event within the period of time beginning five business days prior to the date the submission is due. For the purposes of this paragraph, a force majeure event is defined as an event that will be or has been caused by circumstances beyond the control of the affected facility, its contractors, or any entity controlled by the affected facility that prevents you from complying with the requirement to submit a report electronically within the time period prescribed. Examples of such events are acts of nature (e.g., hurricanes, earthquakes, or floods), acts of war or terrorism, or equipment failure or safety hazard beyond the control of the affected facility (e.g., large scale power outage). (2) You must submit notification to the Administrator in writing as soon as possible following the date you first knew, or through due diligence should have known, that the event may cause or has caused a delay in reporting. (3) You must provide to the Administrator: (i) A written description of the force majeure event; (ii) A rationale for attributing the delay in reporting beyond the regulatory deadline to the force majeure event; (iii) A description of measures taken or to be taken to minimize the delay in reporting; and (iv) The date by which you propose to report, or if you have already met the reporting requirement at the time of the notification, the date you reported. (4) The decision to accept the claim of force majeure and allow an extension to the reporting deadline is solely within the discretion of the Administrator. (5) In any circumstance, the reporting must occur as soon as possible after the force majeure event occurs.</p>	Y	
63.2525	What records must I keep?	Y	
63.2525	You must keep the records specified in paragraphs (a) through (t) of this section.	Y	
63.2525(a)	Except as specified in §§63.2450(e)(4), 63.2480(f), 63.2485(p) and (q), and paragraph (t) of this section, each applicable record required by subpart A of this part and in referenced subparts F, G, SS, UU, WW, and GGG of this part and in referenced subpart F of 40 CFR part 65.	Y	
63.2525(b)	Records of each operating scenario as specified in paragraphs (b)(1) through (8) of this section.	Y	
63.2525(b)(1)	A description of the process and the type of process equipment used.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2525(b)(7)	Calculations and engineering analyses required to demonstrate compliance.	Y	
63.2525(b)(8)	For reporting purposes, a change to any of these elements not previously reported, except for paragraph (b)(5) of this section, constitutes a new operating scenario.	Y	
63.2525(f)	A record of each time a safety device is opened to avoid unsafe conditions in accordance with §63.2450(p).	Y	
63.2525(j)	In the SSMP required by §63.6(e)(3) of subpart A, you are not required to include Group 2 emission points, unless those emission points are used in an emissions average. For equipment leaks, the SSMP requirement is limited to control devices and is optional for other equipment. On and after August 12, 2023, this paragraph (j) no longer applies.	Y	
63.2525(l)	Beginning no later than the compliance dates specified in §63.2445(g), paragraph (h) of this section no longer applies. Instead, for each deviation from an emission limit, operating limit, or work practice standard, you must keep a record of the information specified in paragraph (l)(1) through (3) of this section. The records shall be maintained as specified in §63.10(b)(1) of subpart A.	Y	
63.2525(l)(1)	In the event that an affected unit does not meet an applicable standard, record the number of deviations. For each deviation record the date, time and duration of each deviation.	Y	
63.2525(l)(2)	For each deviation from an applicable standard, record and retain a list of the affected sources or equipment, an estimate of the quantity of each regulated pollutant emitted over any emission limit and a description of the method used to estimate the emissions.	Y	
63.2525(l)(3)	Record actions taken to minimize emissions in accordance with §63.2450(u) and any corrective actions taken to return the affected unit to its normal or usual manner of operation.	Y	
63.2525(t)	Any records required to be maintained by this part that are submitted electronically via the EPA’s CEDRI may be maintained in electronic format. This ability to maintain electronic copies does not affect the requirement for facilities to make records, data, and reports available upon request to a delegated air agency or the EPA as part of an on-site compliance evaluation.	Y	
63.2535	What compliance options do I have if part of my plant is subject to both this subpart and another subpart?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2535	For any equipment, emission stream, or wastewater stream not subject to §63.2493 but subject to other provisions of both this subpart and another rule, you may elect to comply only with the provisions as specified in paragraphs (a) through (l) of this section. You also must identify the subject equipment, emission stream, or wastewater stream, and the provisions with which you will comply, in your notification of compliance status report required by §63.2520(d).	Y	
63.2540	What parts of the General Provisions apply to me?	Y	
63.2540	Table 12 to this subpart shows which parts of the General Provisions in §63.1 through 63.15 apply to you.	Y	
63.2545	Who implements and enforces this subpart?	Y	
63.2545(a)	(a) This subpart can be implemented and enforced by us, the U.S. Environmental Protection Agency (U.S. EPA), or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency also has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.	Y	
63.2545(b)	(b) In delegating implementation and enforcement authority of this subpart to a state, local, or tribal agency under subpart E of this part, the authorities contained in paragraphs (b)(1) through (5) of this section are retained by the Administrator of U.S. EPA and are not delegated to the state, local, or tribal agency. (1) Approval of alternatives to the non-opacity emission limits and work practice standards in §63.2450(a) under §63.6(g). (2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90. (3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90. (4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90. (5) Approval of an alternative to any electronic reporting to the EPA required by this subpart.	Y	
63.2555	What definitions apply to this subpart?	Y	
Table 6 item 1	i. Comply with the requirements of subpart UU of this part and the requirements referenced therein, except as specified in §63.2480(b), and (d) through (f)	Y	
Table 6 item 2	i. Comply with the requirements of subpart UU of this part and the requirements referenced therein, except as specified in §63.2480(b)(6), (b)(7), (e), and (f)	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Table 6 item 3	i. Beginning no later than the compliance dates specified in §63.2445(i), comply with the requirements of subpart UU of this part and the requirements referenced therein, except as specified in §63.2493(d) and (e)	Y	
40 CFR 63 Subpart UU	National Emission Standards for Equipment Leaks – Control Level 2 Standards (07/12/2002) [As referenced by 40 CFR 63, Subpart FFFF]		
63.1019	Applicability	Y	
63.1019(a)	(a) The provisions of this subpart apply to the control of air emissions from equipment leaks for which another subpart references the use of this subpart for such air emission control. These air emission standards for equipment leaks are placed here for administrative convenience and only apply to those owners and operators of facilities subject to a referencing subpart. The provisions of 40 CFR part 63, subpart A (General Provisions) do not apply to this subpart except as noted in the referencing subpart.	Y	
63.1019(b)	(b) Equipment subject to this subpart. The provisions of this subpart and the referencing subpart apply to equipment that contains or contacts regulated material. This subpart applies to pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, instrumentation systems, and closed vent systems and control devices used to meet the requirements of this subpart.	Y	
63.1019(c)	(c) Equipment in vacuum service. Equipment in vacuum service is excluded from the requirements of this subpart.	Y	
63.1019(d)	(d) Equipment in service less than 300 hours per calendar year. Equipment intended to be in regulated material service less than 300 hours per calendar year is excluded from the requirements of §63.1025 through 63.1034 and §63.1036 if it is identified as required in §63.1022(b)(5).	Y	
63.1019(e)	(e) Lines and equipment not containing process fluids. Lines and equipment not containing process fluids are not subject to the provisions of this subpart. Utilities, and other non-process lines, such as heating and cooling systems that do not combine their materials with those in the processes they serve, are not considered to be part of a process unit or affected facility.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1019(f)	(f) Implementation and enforcement. This subpart can be implemented and enforced by the U.S. Environmental Protection Agency (EPA), or a delegated authority such as the applicable State, local, or tribal agency. If the EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency has the authority to implement and enforce this subpart. Contact the applicable EPA Regional Office to find out if this subpart is delegated to a State, local, or tribal agency.	Y	
63.1019(f)(1)	(1) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under section 40 CFR part 63, subpart E, the authorities contained in paragraphs (f)(i) through (v) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency.	Y	
63.1019(f)(1)(i)	(i) Approval of alternatives to the nonopacity emissions standards in §§63.1022 through 62.1034, under §63.6(g), and the standards for quality improvement programs in §63.1035. Where these standards reference another subpart, the cited provisions will be delegated according to the delegation provisions of the referenced subpart.	Y	
63.1019(f)(1)(iii)	(iii) Approval of major changes to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.	Y	
63.1019(f)(1)(iv)	(iv) Approval of major changes to monitoring under §63.8(f) and as defined in §63.90.	Y	
63.1019(f)(1)(v)	(v) Approval of major changes to recordkeeping and reporting under §63.10(f) and as defined in §63.90.	Y	
63.1020	Definitions	Y	
63.1021	Alternative means of emission limitation	Y	
63.1021(a)	(a) Performance standard exemption. The provisions of paragraph (b) of this section do not apply to the performance standards of §63.1031(f) for compressors operating under the alternative compressor standard.	Y	
63.1021(b)	(b) Requests by owners or operators. An owner or operator may request a determination of alternative means of emission limitation to the requirements of §§63.1025 through 63.1034 as provided in paragraph (d) of this section. If the Administrator makes a determination that a means of emission limitation is a permissible alternative, the owner or operator shall either comply with the alternative or comply with the requirements of §§63.1025 through 63.1034.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1021(c)	(c) Requests by manufacturers of equipment. (1) Manufacturers of equipment used to control equipment leaks of the regulated material may apply to the Administrator for permission for an alternative means of emission limitation that achieves a reduction in emissions of the regulated material achieved by the equipment, design, and operational requirements of this subpart. (2) The Administrator will grant permission according to the provisions of paragraph (d) of this section.	Y	
63.1021(d)	(d) Permission to use an alternative means of emission limitation. Permission to use an alternative means of emission limitation shall be governed by the procedures in paragraphs (d)(1) through (d)(4) of this section.	Y	
63.1021(d)(1)	(1) Where the standard is an equipment, design, or operational requirement, the requirements of paragraphs (d)(1)(i) through (d)(1)(iii) of this section apply. (i) Each owner or operator applying for permission to use an alternative means of emission limitation shall be responsible for collecting and verifying emission performance test data for an alternative means of emission limitation. (ii) The Administrator will compare test data for the means of emission limitation to test data for the equipment, design, and operational requirements. (iii) The Administrator may condition the permission on requirements that may be necessary to ensure operation and maintenance to achieve at least the same emission reduction as the equipment, design, and operational requirements of this subpart.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1021(d)(2)	(2) Where the standard is a work practice, the requirements of paragraphs (d)(2)(i) through (d)(2)(vi) of this section apply. (i) Each owner or operator applying for permission to use an alternative means of emission limitation shall be responsible for collecting and verifying test data for the alternative. (ii) For each kind of equipment for which permission is requested, the emission reduction achieved by the required work practices shall be demonstrated for a minimum period of 12 months. (iii) For each kind of equipment for which permission is requested, the emission reduction achieved by the alternative means of emission limitation shall be demonstrated. (iv) Each owner or operator applying for such permission shall commit, in writing, for each kind of equipment to work practices that provide for emission reductions equal to or greater than the emission reductions achieved by the required work practices. (v) The Administrator will compare the demonstrated emission reduction for the alternative means of emission limitation to the demonstrated emission reduction for the required work practices and will consider the commitment in paragraph (d)(2)(iv) of this section. (vi) The Administrator may condition the permission on requirements that may be necessary to ensure operation and maintenance to achieve the same or greater emission reduction as the required work practices of this subpart.	Y	
63.1021(d)(3)	(3) An owner or operator may offer a unique approach to demonstrate the alternative means of emission limitation.	Y	
63.1021(d)(4)	(4) If, in the judgement of the Administrator, an alternative means of emission limitation will be approved, the Administrator will publish a notice of the determination in the FEDERAL REGISTER using the procedures specified in the referencing subpart.	Y	
63.1022	Equipment identification	Y	
63.1022(a)	(a) General equipment identification. Equipment subject to this subpart shall be identified. Identification of the equipment does not require physical tagging of the equipment. For example, the equipment may be identified on a plant site plan, in log entries, by designation of process unit or affected facility boundaries by some form of weatherproof identification, or by other appropriate methods.	Y	
63.1022(b)	(b) Additional equipment identification. In addition to the general identification required by paragraph (a) of this section, equipment subject to any of the provisions in §§63.1023 through 63.1034 shall be specifically identified as required in paragraphs (b)(1) through (b)(5) of this section, as applicable. This paragraph does not apply to an owner or operator of a batch product process who elects to pressure test the batch product process equipment train pursuant to §63.1036.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1022(b)(1)	(1) Connectors. Except for inaccessible, ceramic, or ceramic-lined connectors meeting the provision of §63.1027(e)(2) and instrumentation systems identified pursuant to paragraph (b)(4) of this section, identify the connectors subject to the requirements of this subpart. Connectors need not be individually identified if all connectors in a designated area or length of pipe subject to the provisions of this subpart are identified as a group, and the number of connectors subject is indicated. With respect to connectors, the identification shall be complete no later than the completion of the initial survey required by paragraph (a) of this section. For an existing source, you are not required to develop an initial list of identification numbers for connectors as would otherwise be required under §63.1022(b)(1).	Y	
63.1022(b)(2)	(2) Routed to a process or fuel gas system or equipped with a closed vent system and control device. Identify the equipment that the owner or operator elects to route to a process or fuel gas system or equip with a closed vent system and control device, under the provisions of §63.1026(e)(3) (pumps in light liquid service), §63.1028(e)(3) (agitators), §63.1031(e) (compressors), or §63.1037(a) (alternative means of emission limitation for enclosed-vented process units).	Y	
63.1022(b)(3)	(3) Pressure relief devices. Identify the pressure relief devices equipped with rupture disks, under the provisions of §63.2480(e)(2)(ii).	Y	
63.1022(b)(4)	(4) Instrumentation systems. Identify instrumentation systems subject to the provisions of §63.1029 of this subpart. Individual components in an instrumentation system need not be identified.	Y	
63.1022(b)(5)	(5) Equipment in service less than 300 hours per calendar year. The identity, either by list, location (area or group), or other method, of equipment in regulated material service less than 300 hours per calendar year within a process unit or affected facilities subject to the provisions of this subpart shall be recorded.	Y	
63.1022(c)	(c) Special equipment designations: Equipment that is unsafe or difficult-to-monitor-	Y	
63.1022(c)(1)	(1) Designation and criteria for unsafe-to-monitor. Valves meeting the provisions of §63.1025(e)(1), pumps meeting the provisions of §63.1026(e)(6), connectors meeting the provisions of §63.1027(e)(1), and agitators meeting the provisions of §63.1028(e)(7) may be designated unsafe-to-monitor if the owner or operator determines that monitoring personnel would be exposed to an immediate danger as a consequence of complying with the monitoring requirements of this subpart. Examples of unsafe-to-monitor equipment include, but is not limited to, equipment under extreme pressure or heat.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1022(c)(2)	(2) Designation and criteria for difficult-to-monitor. Valves meeting the provisions of §63.1025(e)(2) may be designated difficult-to-monitor if the provisions of paragraph (c)(2)(i) apply. Agitators meeting the provisions of §63.1028(e)(5) may be designated difficult-to-monitor if the provisions of paragraph (c)(2)(ii) apply.	Y	
63.1022(c)(2)(i)	(i) Valves.	Y	
63.1022(c)(2)(i)(A)	(A) The owner or operator of the valve determines that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters (7 feet) above a support surface or it is not accessible in a safe manner when it is in regulated material service; and	Y	
63.1022(c)(2)(i)(B)	(B) The process unit or affected facility within which the valve is located is an existing source, or the owner or operator designates less than 3 percent of the total number of valves in a new source as difficult-to-monitor.	Y	
63.1022(c)(2)(ii)	(ii) Agitators. The owner or operator determines that the agitator cannot be monitored without elevating the monitoring personnel more than 2 meters (7 feet) above a support surface or it is not accessible in a safe manner when it is in regulated material service.	Y	
63.1022(c)(4)	(4) Written plan requirements.	Y	
63.1022(c)(4)(i)	(i) The owner or operator of equipment designated as unsafe-to-monitor according to the provisions of paragraph (c)(1) of this section shall have a written plan that requires monitoring of the equipment as frequently as practical during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in §63.1024 if a leak is detected.	Y	
63.1022(c)(4)(ii)	(ii) The owner or operator of equipment designated as difficult-to-monitor according to the provisions of paragraph (c)(2) of this section shall have a written plan that requires monitoring of the equipment at least once per calendar year and repair of the equipment according to the procedures in §63.1024 if a leak is detected.	Y	
63.1022(d)	(d) Special equipment designations: Equipment that is unsafe-to-repair-	Y	
63.1022(d)(1)	(1) Designation and criteria. Connectors subject to the provisions of §63.1024(e) may be designated unsafe-to-repair if the owner or operator determines that repair personnel would be exposed to an immediate danger as a consequence of complying with the repair requirements of this subpart, and if the connector will be repaired before the end of the next process unit or affected facility shutdown as specified in §63.1024(e)(2).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1022(d)(2)	(2) Identification of equipment. The identity of connectors designated as unsafe-to-repair and an explanation why the connector is unsafe-to-repair shall be recorded.	Y	
63.1022(e)	(e) Special equipment designations: Compressors operating with an instrument reading of less than 500 parts per million above background. Identify the compressors that the owner or operator elects to designate as operating with an instrument reading of less than 500 parts per million above background, under the provisions of §63.1031(f).	Y	
63.1022(f)	(f) Special equipment designations: Equipment in heavy liquid service. The owner or operator of equipment in heavy liquid service shall comply with the requirements of either paragraph (f)(1) or (f)(2) of this section, as provided in paragraph (f)(3) of this section.	Y	
63.1022(f)(1)	(1) Retain information, data, and analyses used to determine that a piece of equipment is in heavy liquid service.	Y	
63.1022(f)(2)	(2) When requested by the Administrator, demonstrate that the piece of equipment or process is in heavy liquid service.	Y	
63.1022(f)(3)	(3) A determination or demonstration that a piece of equipment or process is in heavy liquid service shall include an analysis or demonstration that the process fluids do not meet the definition of “in light liquid service.” Examples of information that could document this include, but are not limited to, records of chemicals purchased for the process, analyses of process stream composition, engineering calculations, or process knowledge.	Y	
63.1023	Instrument and sensory monitoring for leaks	Y	
63.1023(a)	(a) Monitoring for leaks. The owner or operator of a regulated source subject to this subpart shall monitor regulated equipment as specified in paragraph (a)(1) of this section for instrument monitoring and paragraph (a)(2) of this section for sensory monitoring.	Y	
63.1023(a)(1)	(1) Instrument monitoring for leaks.	Y	
63.1023(a)(1)(i)	(i) Valves in gas and vapor service and in light liquid service shall be monitored pursuant to §63.1025(b).	Y	
63.1023(a)(1)(ii)	(ii) Pumps in light liquid service shall be monitored pursuant to §63.1026(b).	Y	
63.1023(a)(1)(iii)	(iii) Connectors in gas and vapor service and in light liquid service shall be monitored pursuant to §63.1027(b).	Y	
63.1023(a)(1)(iv)	(iv) Agitators in gas and vapor service and in light liquid service shall be monitored pursuant to §63.1028(c).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1023(a)(1)(vi)	(vi) Compressors designated to operate with an instrument reading less than 500 parts per million above background, as described in §63.1022(e), shall be monitored pursuant to §63.1031(f).	Y	
63.1023(a)(2)	(2) Sensory monitoring for leaks.	Y	
63.1023(a)(2)(i)	(i) Pumps in light liquid service shall be observed pursuant to §§63.1026(b)(4) and (e)(1)(v).	Y	
63.1023(a)(2)(iii)	(iii) Agitators in gas and vapor service and in light liquid service shall be observed pursuant to §63.1028(c)(3) or (e)(1)(iv).	Y	
63.1023(b)	(b) Instrument monitoring methods. Instrument monitoring, as required under this subpart, shall comply with the requirements specified in paragraphs (b)(1) through (b)(6) of this section.	Y	
63.1023(b)(1)	(1) Monitoring method. Monitoring shall comply with Method 21 of 40 CFR part 60, appendix A, except as otherwise provided in this section.	Y	
63.1023(b)(2)	(2) Detection instrument performance criteria.	Y	
63.1023(b)(2)(i)	(i) Except as provided for in paragraph (b)(2)(ii) of this section, the detection instrument shall meet the performance criteria of Method 21 of 40 CFR part 60, appendix A, except the instrument response factor criteria in section 3.1.2, paragraph (a) of Method 21 shall be for the representative composition of the process fluid not each individual VOC in the stream. For process streams that contain nitrogen, air, water or other inerts that are not HAP or VOC, the representative stream response factor shall be determined on an inert-free basis. The response factor may be determined at any concentration for which monitoring for leaks will be conducted.	Y	
63.1023(b)(2)(ii)	(ii) If there is no instrument commercially available that will meet the performance criteria specified in paragraph (b)(2)(i) of this section, the instrument readings may be adjusted by multiplying by the representative response factor of the process fluid, calculated on an inert-free basis as described in paragraph (b)(2)(i) of this section.	Y	
63.1023(b)(3)	(3) Detection instrument calibration procedure. The detection instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21 of 40 CFR part 60, appendix A.	Y	
63.1023(b)(4)	(4) Detection instrument calibration gas. Calibration gases shall be zero air (less than 10 parts per million of hydrocarbon in air); and the gases specified in paragraph (b)(4)(i) of this section except as provided in paragraph (b)(4)(ii) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1023(b)(4)(i)	(i) Mixtures of methane in air at a concentration no more than 2,000 parts per million greater than the leak definition concentration of the equipment monitored. If the monitoring instrument's design allows for multiple calibration scales, then the lower scale shall be calibrated with a calibration gas that is no higher than 2,000 parts per million above the concentration specified as a leak, and the highest scale shall be calibrated with a calibration gas that is approximately equal to 10,000 parts per million. If only one scale on an instrument will be used during monitoring, the owner or operator need not calibrate the scales that will not be used during that day's monitoring.	Y	
63.1023(b)(4)(ii)	(ii) A calibration gas other than methane in air may be used if the instrument does not respond to methane or if the instrument does not meet the performance criteria specified in paragraph (b)(2)(i) of this section. In such cases, the calibration gas may be a mixture of one or more of the compounds to be measured in air.	Y	
63.1023(b)(5)	(5) Monitoring performance. Monitoring shall be performed when the equipment is in regulated material service or is in use with any other detectable material.	Y	
63.1023(b)(6)	(6) Monitoring data. Monitoring data obtained prior to the regulated source becoming subject to the referencing subpart that do not meet the criteria specified in paragraphs (b)(1) through (b)(5) of this section may still be used to qualify initially for less frequent monitoring under the provisions in §63.1025(a)(2), (b)(3) or (b)(4) for valves or §63.1027(b)(3) for connectors provided the departures from the criteria or from the specified monitoring frequency of §63.1025(b)(3) or (b)(4) or §63.1027(b)(3) are minor and do not significantly affect the quality of the data. Examples of minor departures are monitoring at a slightly different frequency (such as every 6 weeks instead of monthly or quarterly), following the performance criteria of section 3.1.2, paragraph (a) of Method 21 of appendix A of 40 CFR part 60 instead of paragraph (b)(2) of this section, or monitoring using a different leak definition if the data would indicate the presence or absence of a leak at the concentration specified in this subpart. Failure to use a calibrated instrument is not considered a minor departure.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1023(c)	(c) Instrument monitoring using background adjustments. The owner or operator may elect to adjust or not to adjust the instrument readings for background. If an owner or operator elects not to adjust instrument readings for background, the owner or operator shall monitor the equipment according to the procedures specified in paragraphs (b)(1) through (b)(5) of this section. In such cases, all instrument readings shall be compared directly to the applicable leak definition for the monitored equipment to determine whether there is a leak or to determine compliance with §63.2480(e)(1) (pressure relief devices) or §63.1031(f) (alternative compressor standard). If an owner or operator elects to adjust instrument readings for background, the owner or operator shall monitor the equipment according to the procedures specified in paragraphs (c)(1) through (c)(4) of this section.	Y	
63.1023(c)(1)	(1) The requirements of paragraphs (b)(1) through (b)(5) of this section shall apply.	Y	
63.1023(c)(2)	(2) The background level shall be determined, using the procedures in Method 21 of 40 CFR part 60, appendix A.	Y	
63.1023(c)(3)	(3) The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21 of 40 CFR part 60, appendix A.	Y	
63.1023(c)(4)	(4) The arithmetic difference between the maximum concentration indicated by the instrument and the background level shall be compared to the applicable leak definition for the monitored equipment to determine whether there is a leak or to determine compliance with §63.2480(e)(1) (pressure relief devices) or §63.1031(f) (alternative compressor standard).	Y	
63.1023(d)	(d) Sensory monitoring methods. Sensory monitoring consists of visual, audible, olfactory, or any other detection method used to determine a potential leak to the atmosphere.	Y	
63.1023(e)	(e) Leaking equipment identification and records.	Y	
63.1023(e)(1)	(1) When each leak is detected pursuant to the monitoring specified in paragraph (a) of this section, a weatherproof and readily visible identification, shall be attached to the leaking equipment.	Y	
63.1023(e)(2)	(2) When each leak is detected, the information specified in §63.1024(f) shall be recorded and kept pursuant to the referencing subpart, except for the information for connectors complying with the 8 year monitoring period allowed under §63.1027(b)(3)(iii) shall be kept 5 years beyond the date of its last use.	Y	
63.1024	Leak repair	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1024(a)	(a) Leak repair schedule. The owner or operator shall repair each leak detected as soon as practical, but not later than 15 calendar days after it is detected, except as provided in paragraphs (d) and (e) of this section. A first attempt at repair as defined in this subpart shall be made no later than 5 calendar days after the leak is detected. First attempt at repair for pumps includes, but is not limited to, tightening the packing gland nuts and/or ensuring that the seal flush is operating at design pressure and temperature. First attempt at repair for valves includes, but is not limited to, tightening the bonnet bolts, and/or replacing the bonnet bolts, and/or tightening the packing gland nuts, and/or injecting lubricant into the lubricated packing.	Y	
63.1024(c)	(c) Leak identification removal-	Y	
63.1024(c)(1)	(1) Valves and connectors in gas/vapor and light liquid service. The leak identification on a valve in gas/vapor or light liquid service may be removed after it has been monitored as specified in §63.1025(d)(2), and no leak has been detected during that monitoring. The leak identification on a connector in gas/vapor or light liquid service may be removed after it has been monitored as specified in §63.1027(b)(3)(iv) and no leak has been detected during that monitoring.	Y	
63.1024(c)(2)	(2) Other equipment. The identification that has been placed, pursuant to §63.1023(e)(1), on equipment determined to have a leak, except for a valve or for a connector in gas/vapor or light liquid service that is subject to the provisions of §63.1027(b)(3)(iv), may be removed after it is repaired.	Y	
63.1024(d)	(d) Delay of repair. Delay of repair is allowed for any of the conditions specified in paragraphs (d)(1) through (d)(5) of this section. The owner or operator shall maintain a record of the facts that explain any delay of repairs and, where appropriate, why the repair was technically infeasible without a process unit shutdown.	Y	
63.1024(d)(1)	(1) Delay of repair of equipment for which leaks have been detected is allowed if repair within 15 days after a leak is detected is technically infeasible without a process unit or affected facility shutdown. Repair of this equipment shall occur as soon as practical, but no later than the end of the next process unit or affected facility shutdown, except as provided in paragraph (d)(5) of this section.	Y	
63.1024(d)(2)	(2) Delay of repair of equipment for which leaks have been detected is allowed for equipment that is isolated from the process and that does not remain in regulated material service.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1024(d)(3)	(3) Delay of repair for valves, connectors, and agitators is also allowed if the provisions of paragraphs (d)(3)(i) and (d)(3)(ii) of this section are met.	Y	
63.1024(d)(3)(i)	(i) The owner or operator determines that emissions of purged material resulting from immediate repair would be greater than the fugitive emissions likely to result from delay of repair, and	Y	
63.1024(d)(3)(ii)	(ii) When repair procedures are effected, the purged material is collected and destroyed, collected and routed to a fuel gas system or process, or recovered in a control device complying with either §63.1034 or §63.1021(b) of this part.	Y	
63.1024(d)(4)	(4) Delay of repair for pumps is also allowed if the provisions of paragraphs (d)(4)(i) and (d)(4)(ii) of this section are met.	Y	
63.1024(d)(4)(i)	(i) Repair requires replacing the existing seal design with a new system that the owner or operator has determined under the provisions of §63.1035(d) will provide better performance or one of the specifications of paragraphs (d)(4)(i)(A) through (d)(4)(i)(C) of this section are met. (A) A dual mechanical seal system that meets the requirements of §63.1026(e)(1) will be installed; (B) A pump that meets the requirements of §63.1026(e)(2) will be installed; or (C) A system that routes emissions to a process or a fuel gas system or a closed vent system and control device that meets the requirements of §63.1026(e)(3) will be installed; and	Y	
63.1024(d)(4)(ii)	(ii) Repair is completed as soon as practical, but not later than 6 months after the leak was detected.	Y	
63.1024(d)(5)	(5) Delay of repair beyond a process unit or affected facility shutdown will be allowed for a valve if valve assembly replacement is necessary during the process unit or affected facility shutdown, and valve assembly supplies have been depleted, and valve assembly supplies had been sufficiently stocked before the supplies were depleted. Delay of repair beyond the second process unit or affected facility shutdown will not be allowed unless the third process unit or affected facility shutdown occurs sooner than 6 months after the first process unit or affected facility shutdown.	Y	
63.1024(e)	(e) Unsafe-to-repair-connectors. Any connector that is designated, as described in §63.1022(d), as an unsafe-to-repair connector is exempt from the requirements of §63.1027(d), and paragraph (a) of this section.	Y	
63.1024(f)	(f) Leak repair records. For each leak detected, the information specified in paragraphs (f)(1) through (f)(5) of this section shall be recorded and maintained pursuant to the referencing subpart.	Y	
63.1024(f)(1)	(1) The date of first attempt to repair the leak.	Y	
63.1024(f)(2)	(2) The date of successful repair of the leak.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1024(f)(3)	(3) Maximum instrument reading measured by Method 21 of 40 CFR part 60, appendix A at the time the leak is successfully repaired or determined to be nonrepairable.	Y	
63.1024(f)(4)	(4) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak as specified in paragraphs (f)(4)(i) and (f)(4)(ii) of this section.	Y	
63.1024(f)(4)(i)	(i) The owner or operator may develop a written procedure that identifies the conditions that justify a delay of repair. The written procedures may be part of a separate document that is maintained at the plant site. In such cases, reasons for delay of repair may be documented by citing the relevant sections of the written procedure.	Y	
63.1024(f)(4)(ii)	(ii) If delay of repair was caused by depletion of stocked parts, there must be documentation that the spare parts were sufficiently stocked on-site before depletion and the reason for depletion.	Y	
63.1024(f)(5)	(5) Dates of process unit or affected facility shutdowns that occur while the equipment is unrepaired.	Y	
63.1025	Valves in gas and vapor service and in light liquid service standards	Y	
63.1025(a)	(a) Compliance schedule.	Y	
63.1025(a)(1)	(1) The owner or operator shall comply with this section no later than the compliance dates specified in the referencing subpart.	Y	
63.1025(a)(2)	(2) The use of monitoring data generated before the regulated source became subject to the referencing subpart to qualify initially for less frequent monitoring is governed by the provisions of §63.1023(b)(6).	Y	
63.1025(b)	(b) Leak detection. Unless otherwise specified in §63.1021(b) or paragraph (e) of this section, or the referencing subpart, the owner or operator shall monitor all valves at the intervals specified in paragraphs (b)(3) and/or (b)(4) of this section and shall comply with all other provisions of this section.	Y	
63.1025(b)(1)	(1) Monitoring method. The valves shall be monitored to detect leaks by the method specified in §63.1023(b) and, as applicable, §63.1023(c).	Y	
63.1025(b)(2)	(2) Instrument reading that defines a leak. The instrument reading that defines a leak is 500 parts per million or greater.	Y	
63.1025(b)(3)	(3) Monitoring frequency. The owner or operator shall monitor valves for leaks at the intervals specified in paragraphs (b)(3)(i) through (b)(3)(v) of this section and shall keep the record specified in paragraph (b)(3)(vi) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1025(b)(3)(i)	(i) If at least the greater of 2 valves or 2 percent of the valves in a process unit leak, as calculated according to paragraph (c) of this section, the owner or operator shall monitor each valve once per month.	Y	
63.1025(b)(3)(ii)	(ii) At process units with less than the greater of 2 leaking valves or 2 percent leaking valves, the owner or operator shall monitor each valve once each quarter, except as provided in paragraphs (b)(3)(iii) through (b)(3)(v) of this section. Monitoring data generated before the regulated source became subject to the referencing subpart and meeting the criteria of either §63.1023(b)(1) through (b)(5), or §63.1023(b)(6), may be used to qualify initially for less frequent monitoring under paragraphs (b)(3)(iii) through (b)(3)(v) of this section.	Y	
63.1025(b)(3)(iii)	(iii) At process units with less than 1 percent leaking valves, the owner or operator may elect to monitor each valve once every two quarters	Y	
63.1025(b)(3)(iv)	(iv) At process units with less than 0.5 percent leaking valves, the owner or operator may elect to monitor each valve once every four quarters.	Y	
63.1025(b)(3)(v)	(v) At process units with less than 0.25 percent leaking valves, the owner or operator may elect to monitor each valve once every 2 years.	Y	
63.1025(b)(3)(vi)	(vi) The owner or operator shall keep a record of the monitoring schedule for each process unit.	Y	
63.1025(b)(4)	(4) Valve subgrouping. For a process unit or a group of process units to which this subpart applies, an owner or operator may choose to subdivide the valves in the applicable process unit or group of process units and apply the provisions of paragraph (b)(3) of this section to each subgroup. If the owner or operator elects to subdivide the valves in the applicable process unit or group of process units, then the provisions of paragraphs (b)(4)(i) through (b)(4)(viii) of this section apply.	Y	
63.1025(b)(4)(i)	(i) The overall performance of total valves in the applicable process unit or group of process units to be subdivided shall be less than 2 percent leaking valves, as detected according to paragraphs (b)(1) and (b)(2) of this section and as calculated according to paragraphs (c)(1)(ii) and (c)(2) of this section.	Y	
63.1025(b)(4)(ii)	(ii) The initial assignment or subsequent reassignment of valves to subgroups shall be governed by the provisions of paragraphs (b)(4)(ii)(A) through (b)(4)(ii)(C) of this section.	Y	
63.1025(b)(4)(ii)(A)	(A) The owner or operator shall determine which valves are assigned to each subgroup. Valves with less than one year of monitoring data or valves not monitored within the last twelve months must be placed initially into the most frequently monitored subgroup until at least one year of monitoring data have been obtained.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1025(b)(4)(ii)(B)	(B) Any valve or group of valves can be reassigned from a less frequently monitored subgroup to a more frequently monitored subgroup provided that the valves to be reassigned were monitored during the most recent monitoring period for the less frequently monitored subgroup. The monitoring results must be included with that less frequently monitored subgroup's associated percent leaking valves calculation for that monitoring event.	Y	
63.1025(b)(4)(ii)(C)	(C) Any valve or group of valves can be reassigned from a more frequently monitored subgroup to a less frequently monitored subgroup provided that the valves to be reassigned have not leaked for the period of the less frequently monitored subgroup (e.g., for the last 12 months, if the valve or group of valves is to be reassigned to a subgroup being monitored annually). Nonrepairable valves may not be reassigned to a less frequently monitored subgroup.	Y	
63.1025(b)(4)(iii)	<p>(iii) The owner or operator shall determine every 6 months if the overall performance of total valves in the applicable process unit or group of process units is less than 2 percent leaking valves and so indicate the performance in the next Periodic Report. If the overall performance of total valves in the applicable process unit or group of process units is 2 percent leaking valves or greater, the owner or operator shall no longer subgroup and shall revert to the program required in paragraphs (b)(1) through (b)(3) of this section for that applicable process unit or group of process units. An owner or operator can again elect to comply with the valve subgrouping procedures of paragraph (b)(4) of this section if future overall performance of total valves in the process unit or group of process units is again less than 2 percent. The overall performance of total valves in the applicable process unit or group of process units shall be calculated as a weighted average of the percent leaking valves of each subgroup according to Equation number 1:</p> $\%V_{LO} = \frac{\sum_{i=1}^n (\%V_{Li} \times V_i)}{\sum_{i=1}^n V_i}$ <p>where: %V_{LO} = Overall performance of total valves in the applicable process unit or group of process units %V_{Li} = Percent leaking valves in subgroup i, most recent value calculated according to the procedures in paragraphs (c)(1)(ii) and (c)(2) of this section. V_i = Number of valves in subgroup i. n = Number of subgroups.</p>	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1025(b)(4)(iv)	(iv) The owner or operator shall maintain records specified in paragraphs (b)(4)(iv)(A) through (b)(4)(iv)(D) of this section. (A) Which valves are assigned to each subgroup, (B) Monitoring results and calculations made for each subgroup for each monitoring period, (C) Which valves are reassigned, the last monitoring result prior to reassignment, and when they were reassigned, and (D) The results of the semiannual overall performance calculation required in paragraph (b)(4)(iii) of this section.	Y	
63.1025(b)(4)(v)	(v) The owner or operator shall notify the Administrator no later than 30 days prior to the beginning of the next monitoring period of the decision to subgroup valves. The notification shall identify the participating process units and the number of valves assigned to each subgroup, if applicable, and may be included in the next Periodic Report.	Y	
63.1025(b)(4)(vi)	(vi) The owner or operator shall submit in the periodic reports the information specified in paragraphs (b)(4)(vi)(A) and (b)(4)(vi)(B). (A) Total number of valves in each subgroup, and (B) Results of the semiannual overall performance calculation required by paragraph (b)(4)(iii) of this section.	Y	
63.1025(b)(4)(vii)	(vii) To determine the monitoring frequency for each subgroup, the calculation procedures of paragraph (c)(2) of this section shall be used.	Y	
63.1025(b)(4)(viii)	(viii) Except for the overall performance calculations required by paragraphs (b)(4)(i) and (iii) of this section, each subgroup shall be treated as if it were a process unit for the purposes of applying the provisions of this section.	Y	
63.1025(c)	(c) Percent leaking valves calculation-	Y	
63.1025(c)(1)	(1) Calculation basis and procedures.	Y	
63.1025(c)(1)(i)	(i) The owner or operator shall decide no later than the compliance date of this part or upon revision of an operating permit whether to calculate percent leaking valves on a process unit or group of process units basis. Once the owner or operator has decided, all subsequent percentage calculations shall be made on the same basis and this shall be the basis used for comparison with the subgrouping criteria specified in paragraph (b)(4)(i) of this section.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1025(c)(1)(ii)	(ii) The percent leaking valves for each monitoring period for each process unit or valve subgroup, as provided in paragraph (b)(4) of this section, shall be calculated using the following equation: $\%V_L = \left(\frac{V_L}{V_T} \right) \times 100$ where: %V _L = Percent leaking valves. V _L = Number of valves found leaking, excluding nonrepairable valves, as provided in paragraph (c)(3) of this section, and including those valves found leaking pursuant to paragraphs (d)(2)(iii)(A) and (d)(2)(iii)(B) of this section. V _T = The sum of the total number of valves monitored.	Y	
63.1025(c)(2)	(2) Calculation for monitoring frequency. When determining monitoring frequency for each process unit or valve subgroup subject to monthly, quarterly, or semiannual monitoring frequencies, the percent leaking valves shall be the arithmetic average of the percent leaking valves from the last two monitoring periods. When determining monitoring frequency for each process unit or valve subgroup subject to annual or biennial (once every 2 years) monitoring frequencies, the percent leaking valves shall be the arithmetic average of the percent leaking valves from the last three monitoring periods.	Y	
63.1025(c)(3)	(3) Nonrepairable valves.	Y	
63.1025(c)(3)(i)	(i) Nonrepairable valves shall be included in the calculation of percent leaking valves the first time the valve is identified as leaking and nonrepairable and as required to comply with paragraph (c)(3)(ii) of this section. Otherwise, a number of nonrepairable valves (identified and included in the percent leaking valves calculation in a previous period) up to a maximum of 1 percent of the total number of valves in regulated material service at a process unit or affected facility may be excluded from calculation of percent leaking valves for subsequent monitoring periods.	Y	
63.1025(c)(3)(ii)	(ii) If the number of nonrepairable valves exceeds 1 percent of the total number of valves in regulated material service at a process unit or affected facility, the number of nonrepairable valves exceeding 1 percent of the total number of valves in regulated material service shall be included in the calculation of percent leaking valves.	Y	
63.1025(d)	(d) Leak repair.	Y	
63.1025(d)(1)	(1) If a leak is determined pursuant to paragraph (b), (e)(1), or (e)(2) of this section, then the leak shall be repaired using the procedures in §63.1024, as applicable.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1025(d)(2)	(2) After a leak has been repaired, the valve shall be monitored at least once within the first 3 months after its repair. The monitoring required by this paragraph is in addition to the monitoring required to satisfy the definition of repaired and first attempt at repair.	Y	
63.1025(d)(2)(i)	(i) The monitoring shall be conducted as specified in §63.1023(b) and (c) of this section, as appropriate, to determine whether the valve has resumed leaking.	Y	
63.1025(d)(2)(ii)	(ii) Periodic monitoring required by paragraph (b) of this section may be used to satisfy the requirements of this paragraph, if the timing of the monitoring period coincides with the time specified in this paragraph. Alternatively, other monitoring may be performed to satisfy the requirements of this paragraph, regardless of whether the timing of the monitoring period for periodic monitoring coincides with the time specified in this paragraph.	Y	
63.1025(d)(2)(iii)	(iii) If a leak is detected by monitoring that is conducted pursuant to paragraph (d)(2) of this section, the owner or operator shall follow the provisions of paragraphs (d)(2)(iii)(A) and (d)(2)(iii)(B) of this section, to determine whether that valve must be counted as a leaking valve for purposes of paragraph (c)(1)(ii) of this section. (A) If the owner or operator elected to use periodic monitoring required by paragraph (b) of this section to satisfy the requirements of paragraph (d)(2) of this section, then the valve shall be counted as a leaking valve. (B) If the owner or operator elected to use other monitoring, prior to the periodic monitoring required by paragraph (b) of this section, to satisfy the requirements of paragraph (d)(2) of this section, then the valve shall be counted as a leaking valve unless it is repaired and shown by periodic monitoring not to be leaking.	Y	
63.1025(e)	(e) Special provisions for valves-	Y	
63.1025(e)(1)	(1) Unsafe-to-monitor valves. Any valve that is designated, as described in §63.1022(c)(1), as an unsafe-to-monitor valve is exempt from the requirements of paragraphs (b) and (d)(2) of this section and the owner or operator shall monitor the valve according to the written plan specified in §63.1022(c)(4).	Y	
63.1025(e)(2)	(2) Difficult-to-monitor valves. Any valve that is designated, as described in §63.1022(c)(2), as a difficult-to-monitor valve is exempt from the requirements of paragraph (b) of this section and the owner or operator shall monitor the valve according to the written plan specified in §63.1022(c)(4).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1025(e)(3)	(3) Fewer than 250 valves. Any equipment located at a plant site with fewer than 250 valves in regulated material service is exempt from the requirements for monthly monitoring specified in paragraph (b)(3)(i) of this section. Instead, the owner or operator shall monitor each valve in regulated material service for leaks once each quarter, as provided in paragraphs (e)(1) and (e)(2) of this section.	Y	
63.1026	Pumps in light liquid service standards	Y	
63.1026(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance dates specified in the referencing subpart.	Y	
63.1026(b)	(b) Leak detection. Unless otherwise specified in §63.1021(b), §63.1036, §63.1037, or paragraph (e) of this section, the owner or operator shall monitor each pump to detect leaks and shall comply with all other provisions of this section.	Y	
63.1026(b)(1)	(1) Monitoring method and frequency. The pumps shall be monitored monthly to detect leaks by the method specified in §63.1023(b) and, as applicable, §63.1023(c).	Y	
63.1026(b)(2)	(2) Instrument reading that defines a leak. The instrument reading that defines a leak is specified in paragraphs (b)(2)(i) through (b)(2)(iii) of this section. (i) 5,000 parts per million or greater for pumps handling polymerizing monomers; (ii) 2,000 parts per million or greater for pumps in food/medical service; and (iii) 1,000 parts per million or greater for all other pumps. For pumps in light liquid service in an MCPU that has no continuous process vents and is part of an existing source, you may elect to consider the leak definition that defines a leak to be 10,000 parts per million (ppm) or greater as an alternative to the values specified in §63.1026(b)(2)(i) through (iii).	Y	
63.1026(b)(4)	(4) Visual inspection. Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. The owner or operator shall document that the inspection was conducted and the date of the inspection. If there are indications of liquids dripping from the pump seal at the time of the weekly inspection, the owner or operator shall follow the procedure specified in either paragraph (b)(4)(i) or (b)(4)(ii) of this section. (i) The owner or operator shall monitor the pump as specified in §63.1023(b) and, as applicable, §63.1023(c). If the instrument reading indicates a leak as specified in paragraph (b)(2) of this section, a leak is detected and it shall be repaired using the procedures in §63.1024, except as specified in paragraph (b)(3) of this section; or (ii) The owner or operator shall eliminate the visual indications of liquids dripping.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1026(c)	(c) Percent leaking pumps calculation.	Y	
63.1026(c)(1)	(1) The owner or operator shall decide no later than the compliance date of this part or upon revision of an operating permit whether to calculate percent leaking pumps on a process unit basis or group of process units basis. Once the owner or operator has decided, all subsequent percentage calculations shall be made on the same basis.	Y	
63.1026(c)(2)	(2) If, when calculated on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak, the owner or operator shall implement a quality improvement program for pumps that complies with the requirements of §63.1035.	Y	
63.1026(c)(3)	(3) The number of pumps at a process unit or affected facility shall be the sum of all the pumps in regulated material service, except that pumps found leaking in a continuous process unit or affected facility within 1 month after start-up of the pump shall not count in the percent leaking pumps calculation for that one monitoring period only.	Y	
63.1026(c)(4)	(4) Percent leaking pumps shall be determined by the following equation: $\%P_L = \left(\frac{P_L - P_S}{P_T - P_S} \right) \times 100$ where: %P _L = Percent leaking pumps P _L = Number of pumps found leaking as determined through monthly monitoring as required in paragraph (b)(1) of this section. Do not include results from inspection of unsafe-to-monitor pumps pursuant to paragraph (e)(6) of this section. P _S = Number of pumps leaking within 1 month of start-up during the current monitoring period. P _T = Total pumps in regulated material service, including those meeting the criteria in paragraphs (e)(1), (e)(2), (e)(3), and (e)(6) of this section.	Y	
63.1026(d)	(d) Leak repair. If a leak is detected pursuant to paragraph (b) of this section, then the leak shall be repaired using the procedures in §63.1024, as applicable, unless otherwise specified in paragraph (b)(5) of this section for leaks identified by visual indications of liquids dripping.	Y	
63.1026(e)	(e) Special provisions for pumps-	Y	
63.1026(e)(1)	(1) Dual mechanical seal pumps. Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (b) of this section, provided the requirements specified in paragraphs (e)(1)(i) through (e)(1)(viii) of this section are met.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1026(e)(1)(i)	(i) The owner or operator determines, based on design considerations and operating experience, criteria applicable to the presence and frequency of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both. The owner or operator shall keep records at the plant of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes. This record must be available for review by an inspector.	Y	
63.1026(e)(1)(ii)	(ii) Each dual mechanical seal system shall meet the requirements specified in paragraph (e)(1)(ii)(A), (e)(1)(ii)(B), or (e)(1)(ii)(C) of this section. (A) Each dual mechanical seal system is operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or (B) Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of either §63.1034 or §63.1021(b) of this part; or (C) Equipped with a closed-loop system that purges the barrier fluid into a process stream.	Y	
63.1026(e)(1)(iii)	(iii) The barrier fluid is not in light liquid service.	Y	
63.1026(e)(1)(iv)	(iv) Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.	Y	
63.1026(e)(1)(v)	(v) Each pump is checked by visual inspection each calendar week for indications of liquids dripping from the pump seal. The owner or operator shall document that the inspection was conducted and the date of the inspection. If there are indications of liquids dripping from the pump seal at the time of the weekly inspection, the owner or operator shall follow the procedure specified in paragraphs (e)(1)(v)(A) or (e)(1)(v)(B) of this section prior to the next required inspection.	Y	
63.1026(e)(1)(v)(A)	(A) The owner or operator shall monitor the pump as specified in §63.1023(b) and, as applicable, §63.1023 (c), to determine if there is a leak of regulated material in the barrier fluid. If an instrument reading of 1,000 parts per million or greater is measured, a leak is detected and it shall be repaired using the procedures in §63.1024; or	Y	
63.1026(e)(1)(v)(B)	(B) The owner or operator shall eliminate the visual indications of liquids dripping.	Y	
63.1026(e)(1)(vi)	(vi) If indications of liquids dripping from the pump seal exceed the criteria established in paragraph (e)(1)(i) of this section, or if based on the criteria established in paragraph (e)(1)(i) of this section the sensor indicates failure of the seal system, the barrier fluid system, or both, a leak is detected.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1026(e)(1)(vii)	(vii) Each sensor as described in paragraph (e)(1)(iv) of this section is observed daily or is equipped with an alarm unless the pump is located within the boundary of an unmanned plant site.	Y	
63.1026(e)(1)(viii)	(viii) When a leak is detected pursuant to paragraph (e)(1)(vi) of this section, it shall be repaired as specified in §63.1024.	Y	
63.1026(e)(2)	(2) No external shaft. Any pump that is designed with no externally actuated shaft penetrating the pump housing is exempt from the requirements of paragraph (b) of this section.	Y	
63.1026(e)(3)	(3) Routed to a process or fuel gas system or equipped with a closed vent system. Any pump that is routed to a process or fuel gas system or equipped with a closed vent system capable of capturing and transporting leakage from the pump to a control device meeting the requirements of §63.1034 of this part or §63.1021(b) is exempt from the requirements of paragraph (b) of this section.	Y	
63.1026(e)(4)	(4) Unmanned plant site. Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs (b)(4) and (e)(1)(v) of this section, and the daily requirements of paragraph (e)(1)(vii) of this section, provided that each pump is visually inspected as often as practical and at least monthly.	Y	
63.1026(e)(5)	(5) 90 percent exemption. If more than 90 percent of the pumps at a process unit or affected facility meet the criteria in either paragraph (e)(1) or (e)(2) of this section, the process unit or affected facility is exempt from the percent leaking calculation in paragraph (c) of this section.	Y	
63.1026(e)(6)	(6) Unsafe-to-monitor pumps. Any pump that is designated, as described in §63.1022(c)(1), as an unsafe-to-monitor pump is exempt from the requirements of paragraph (b) of this section, the monitoring and inspection requirements of paragraphs (e)(1)(v) through (viii) of this section, and the owner or operator shall monitor and inspect the pump according to the written plan specified in §63.1022(c)(4).	Y	
63.1027	Connectors in gas and vapor service and in light liquid service standards. For connectors in gas/vapor and light liquid service at an existing source, you may elect to comply with the requirements in §63.1029 for connectors in heavy liquid service, including all associated recordkeeping and reporting requirements, rather than the requirements of §63.1027.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1027(a)	(a) Compliance schedule. The owner or operator shall monitor all connectors in each process unit initially for leaks by the later of either 12 months after the compliance date as specified in a referencing subpart or 12 months after initial startup. If all connectors in each process unit have been monitored for leaks prior to the compliance date specified in the referencing subpart, no initial monitoring is required provided either no process changes have been made since the monitoring or the owner or operator can determine that the results of the monitoring, with or without adjustments, reliably demonstrate compliance despite process changes. If required to monitor because of a process change, the owner or operator is required to monitor only those connectors involved in the process change.	Y	
63.1027(b)	(b) Leak detection. Except as allowed in §63.1021(b), §63.1036, §63.1037, or as specified in paragraph (e) of this section, the owner or operator shall monitor all connectors in gas and vapor and light liquid service as specified in paragraphs (a) and (b)(3) of this section.	Y	
63.1027(b)(1)	(1) Monitoring method. The connectors shall be monitored to detect leaks by the method specified in §63.1023(b) and, as applicable, §63.1023(c).	Y	
63.1027(b)(2)	(2) Instrument reading that defines a leak. If an instrument reading greater than or equal to 500 parts per million is measured, a leak is detected.	Y	
63.1027(b)(3)	(3) Monitoring periods. The owner or operator shall perform monitoring, subsequent to the initial monitoring required in paragraph (a) of this section, as specified in paragraphs (b)(3)(i) through (b)(3)(iii) of this section, and shall comply with the requirements of paragraphs (b)(3)(iv) and (b)(3)(v) of this section. The required period in which monitoring must be conducted shall be determined from paragraphs (b)(3)(i) through (b)(3)(iii) of this section using the monitoring results from the preceding monitoring period. The percent leaking connectors shall be calculated as specified in paragraph (c) of this section.	Y	
63.1027(b)(3)(i)	(i) If the percent leaking connectors in the process unit was greater than or equal to 0.5 percent, then monitor within 12 months (1 year).	Y	
63.1027(b)(3)(ii)	(ii) If the percent leaking connectors in the process unit was greater than or equal to 0.25 percent but less than 0.5 percent, then monitor within 4 years. An owner or operator may comply with the requirements of this paragraph by monitoring at least 40 percent of the connectors within 2 years of the start of the monitoring period, provided all connectors have been monitored by the end of the 4 year monitoring period.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1027(b)(3)(iii)	(iii) If the percent leaking connectors in the process unit was less than 0.25 percent, then monitor as provided in paragraph (b)(3)(iii)(A) of this section and either paragraph (b)(3)(iii)(B) or (b)(3)(iii)(C) of this section, as appropriate. (A) An owner or operator shall monitor at least 50 percent of the connectors within 4 years of the start of the monitoring period. (B) If the percent leaking connectors calculated from the monitoring results in paragraph (b)(3)(iii)(A) of this section is greater than or equal to 0.35 percent of the monitored connectors, the owner or operator shall monitor as soon as practical, but within the next 6 months, all connectors that have not yet been monitored during the monitoring period. At the conclusion of monitoring, a new monitoring period shall be started pursuant to paragraph (b)(3) of this section, based on the percent leaking connectors of the total monitored connectors. (C) If the percent leaking connectors calculated from the monitoring results in paragraph (b)(3)(iii)(A) of this section is less than 0.35 percent of the monitored connectors, the owner or operator shall monitor all connectors that have not yet been monitored within 8 years of the start of the monitoring period.	Y	
63.1027(b)(3)(iv)	(iv) If, during the monitoring conducted pursuant to paragraph (b)(3)(i) through (b)(3)(iii) of this section, a connector is found to be leaking, it shall be re-monitored once within 90 days after repair to confirm that it is not leaking.	Y	
63.1027(b)(3)(v)	(v) The owner or operator shall keep a record of the start date and end date of each monitoring period under this section for each process unit.	Y	
63.1027(c)	(c) Percent leaking connectors calculation. For use in determining the monitoring frequency, as specified in paragraphs (a) and (b)(3) of this section, the percent leaking connectors as used in paragraphs (a) and (b)(3) of this section shall be calculated by using equation number 4. Where: %CL = Percent leaking connectors as determined through periodic monitoring required in paragraphs (a) and (b)(3)(i) through (b)(3)(iii) of this section. CL = Number of connectors measured at 500 parts per million or greater, by the method specified in §63.1023(b). Ct = Total number of monitored connectors in the process unit or affected facility.	Y	
63.1027(d)	(d) Leak repair. If a leak is detected pursuant to paragraphs (a) and (b) of this section, then the leak shall be repaired using the procedures in §63.1024, as applicable.	Y	
63.1027(e)	(e) Special provisions for connectors-	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1027(e)(1)	(1) Unsafe-to-monitor connectors. Any connector that is designated, as described in §63.1022(c)(1), as an unsafe-to-monitor connector is exempt from the requirements of paragraphs (a) and (b) of this section and the owner or operator shall monitor according to the written plan specified in §63.1022(c)(4).	Y	
63.1027(e)(2)	(2) Inaccessible, ceramic, or ceramic-lined connectors.	Y	
63.1027(e)(2)(i)	(i) Any connector that is inaccessible or that is ceramic or ceramic-lined (e.g., porcelain, glass, or glass-lined), is exempt from the monitoring requirements of paragraphs (a) and (b) of this section, from the leak repair requirements of paragraph (d) of this section, and from the recordkeeping and reporting requirements of §§63.1038 and 63.1039. An inaccessible connector is one that meets any of the provisions specified in paragraphs (e)(2)(i)(A) through (e)(2)(i)(F) of this section, as applicable. (A) Buried; (B) Insulated in a manner that prevents access to the connector by a monitor probe; (C) Obstructed by equipment or piping that prevents access to the connector by a monitor probe; (D) Unable to be reached from a wheeled scissor-lift or hydraulic-type scaffold that would allow access to connectors up to 7.6 meters (25 feet) above the ground. (E) Inaccessible because it would require elevating the monitoring personnel more than 2 meters (7 feet) above a permanent support surface or would require the erection of scaffold; (F) Not able to be accessed at any time in a safe manner to perform monitoring. Unsafe access includes, but is not limited to, the use of a wheeled scissor-lift on unstable or uneven terrain, the use of a motorized man-lift basket in areas where an ignition potential exists, or access would require near proximity to hazards such as electrical lines, or would risk damage to equipment.	Y	
63.1027(e)(2)(ii)	(ii) If any inaccessible, ceramic or ceramic-lined connector is observed by visual, audible, olfactory, or other means to be leaking, the visual, audible, olfactory, or other indications of a leak to the atmosphere shall be eliminated as soon as practical.	Y	
63.1028	Agitators in gas and vapor service and in light liquid service standards	Y	
63.1028(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance dates specified in the referencing subpart.	Y	
63.1028(c)	(c) Leak detection-	Y	
63.1028(c)(1)	(1) Monitoring method. Each agitator seal shall be monitored monthly to detect leaks by the methods specified in §63.1023(b) and, as applicable, §63.1023(c), except as provided in §63.1021(b), §63.1036, §63.1037, or paragraph (e) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1028(c)(2)	(2) Instrument reading that defines a leak. If an instrument reading equivalent of 10,000 parts per million or greater is measured, a leak is detected.	Y	
63.1028(c)(3)	(3) Visual inspection.	Y	
63.1028(c)(3)(i)	(i) Each agitator seal shall be checked by visual inspection each calendar week for indications of liquids dripping from the agitator seal. The owner or operator shall document that the inspection was conducted and the date of the inspection.	Y	
63.1028(c)(3)(ii)	(ii) If there are indications of liquids dripping from the agitator seal, the owner or operator shall follow the procedures specified in paragraphs (c)(3)(ii)(A) or (c)(3)(ii)(B) of this section prior to the next required inspection.	Y	
63.1028(c)(3)(ii)(A)	(A) The owner or operator shall monitor the agitator seal as specified in §63.1023(b) and, as applicable, §63.1023(c), to determine if there is a leak of regulated material. If an instrument reading of 10,000 parts per million or greater is measured, a leak is detected, and it shall be repaired according to paragraph (d) of this section; or	Y	
63.1028(c)(3)(ii)(B)	(B) The owner or operator shall eliminate the indications of liquids dripping from the agitator seal.	Y	
63.1028(d)	(d) Leak repair. If a leak is detected, then the leak shall be repaired using the procedures in §63.1024.	Y	
63.1028(e)	(e) Special provisions for agitators-	Y	
63.1028(e)(1)	(1) Dual mechanical seal. Each agitator equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraph (c) of this section, provided the requirements specified in paragraphs (e)(1)(i) through (e)(1)(vi) of this section are met.	Y	
63.1028(e)(1)(i)	(i) Each dual mechanical seal system shall meet the applicable requirements specified in paragraphs (e)(1)(i)(A), (e)(1)(i)(B), or (e)(1)(i)(C) of this section.	Y	
63.1028(e)(1)(i)(A)	(A) Operated with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or	Y	
63.1028(e)(1)(i)(B)	(B) Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either §63.1034 or §63.1021(b); or	Y	
63.1028(e)(1)(i)(C)	(C) Equipped with a closed-loop system that purges the barrier fluid into a process stream.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1028(e)(1)(ii)	(ii) The barrier fluid is not in light liquid service.	Y	
63.1028(e)(1)(iii)	(iii) Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.	Y	
63.1028(e)(1)(iv)	(iv) Each agitator seal is checked by visual inspection each calendar week for indications of liquids dripping from the agitator seal. If there are indications of liquids dripping from the agitator seal at the time of the weekly inspection, the owner or operator shall follow the procedure specified in paragraphs (e)(1)(iv)(A) or (e)(1)(iv)(B) of this section prior to the next required inspection. (A) The owner or operator shall monitor the agitator seal as specified in §63.1023(b) and, as applicable, §63.1023(c), to determine the presence of regulated material in the barrier fluid. If an instrument reading equivalent to or greater than 10,000 ppm is measured, a leak is detected and it shall be repaired using the procedures in §63.1024, or (B) The owner or operator shall eliminate the visual indications of liquids dripping.	Y	
63.1028(e)(1)(v)	(v) Each sensor as described in paragraph (e)(1)(iii) of this section is observed daily or is equipped with an alarm unless the agitator seal is located within the boundary of an unmanned plant site.	Y	
63.1028(e)(1)(vi)	(vi) The owner or operator of each dual mechanical seal system shall meet the requirements specified in paragraphs (e)(1)(vi)(A) and (e)(1)(vi)(B). (A) The owner or operator shall determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both and applicable to the presence and frequency of drips. If indications of liquids dripping from the agitator seal exceed the criteria, or if, based on the criteria the sensor indicates failure of the seal system, the barrier fluid system, or both, a leak is detected and shall be repaired pursuant to §63.1024, as applicable. (B) The owner or operator shall keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes.	Y	
63.1028(e)(2)	(2) No external shaft. Any agitator that is designed with no externally actuated shaft penetrating the agitator housing is exempt from paragraph (c) of this section.	Y	
63.1028(e)(3)	(3) Routed to a process or fuel gas system or equipped with a closed vent system. Any agitator that is routed to a process or fuel gas system that captures and transports leakage from the agitator to a control device meeting the requirements of either §63.1034 or §63.1021(b) is exempt from the requirements of paragraph (c) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1028(e)(4)	(4) Unmanned plant site. Any agitator that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs (c)(3) and (e)(1)(iv) of this section, and the daily requirements of paragraph (e)(1)(v) of this section, provided that each agitator is visually inspected as often as practical and at least monthly.	Y	
63.1028(e)(5)	(5) Difficult-to-monitor agitator seals. Any agitator seal that is designated, as described in §63.1022(c)(2), as a difficult-to-monitor agitator seal is exempt from the requirements of paragraph (c) of this section and the owner or operator shall monitor the agitator seal according to the written plan specified in §63.1022(c)(4).	Y	
63.1028(e)(6)	(6) Equipment obstructions. Any agitator seal that is obstructed by equipment or piping that prevents access to the agitator by a monitor probe is exempt from the monitoring requirements of paragraph (c) of this section.	Y	
63.1028(e)(7)	(7) Unsafe-to-monitor agitator seals. Any agitator seal that is designated, as described in §63.1022(c)(1), as an unsafe-to-monitor agitator seal is exempt from the requirements of paragraph (c) of this section and the owner or operator of the agitator seal monitors the agitator seal according to the written plan specified in §63.1022(c)(4).	Y	
63.1029	Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in liquid service; and instrumentation systems standards	Y	
63.1029(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance dates specified in the referencing subpart.	Y	
63.1029(b)	(b) Leak detection-	Y	
63.1029(b)(1)	(1) Monitoring method. Unless otherwise specified in §63.1021(b), §63.1036, or §63.1037, the owner or operator shall comply with paragraphs (b)(1) and (b)(2) of this section. Pumps, valves, connectors, and agitators in heavy liquid service; pressure relief devices in light liquid or heavy liquid service; and instrumentation systems shall be monitored within 5 calendar days by the method specified in §63.1023(b) and, as applicable, §63.1023(c), if evidence of a potential leak to the atmosphere is found by visual, audible, olfactory, or any other detection method, unless the potential leak is repaired as required in paragraph (c) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1029(b)(2)	(2) Instrument reading that defines a leak. If an instrument reading of 10,000 parts per million or greater for agitators, 5,000 parts per million or greater for pumps handling polymerizing monomers, 2,000 parts per million or greater for pumps in food and medical service, or 2,000 parts per million or greater for all other pumps (including pumps in food/medical service), or 500 parts per million or greater for valves, connectors, instrumentation systems, and pressure relief devices is measured pursuant to paragraph (b)(1) of this section, a leak is detected and shall be repaired pursuant to §63.1024, as applicable.	Y	
63.1029(c)	(c) Leak repair. For equipment identified in paragraph (b) of this section that is not monitored by the method specified in §63.1023(b) and, as applicable, §63.1023(c), repaired shall mean that the visual, audible, olfactory, or other indications of a leak to the atmosphere have been eliminated; that no bubbles are observed at potential leak sites during a leak check using soap solution; or that the system will hold a test pressure.	Y	
63.1031	Compressors standards	Y	
63.1031(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance dates specified in the referencing subpart.	Y	
63.1031(b)	(b) Seal system standard. Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in §§63.1021(b), 63.1036, 63.1037, and paragraphs (e) and (f) of this section. Each compressor seal system shall meet the applicable requirements specified in paragraph (b)(1), (b)(2), or (b)(3) of this section.	Y	
63.1031(b)(1)	(1) Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure at all times; or	Y	
63.1031(b)(2)	(2) Equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that meets the requirements of either §63.1034 or §63.1021(b); or	Y	
63.1031(b)(3)	(3) Equipped with a closed-loop system that purges the barrier fluid directly into a process stream.	Y	
63.1031(c)	(c) Barrier fluid system. The barrier fluid shall not be in light liquid service. Each barrier fluid system shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both. Each sensor shall be observed daily or shall be equipped with an alarm unless the compressor is located within the boundary of an unmanned plant site.	Y	
63.1031(d)	(d) Failure criterion and leak detection.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1031(d)(1)	(1) The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion, a leak is detected and shall be repaired pursuant to §63.1024, as applicable.	Y	
63.1031(d)(2)	(2) The owner or operator shall keep records of the design criteria and an explanation of the design criteria; and any changes to these criteria and the reasons for the changes.	Y	
63.1031(e)	(e) Routed to a process or fuel gas system or equipped with a closed vent system. A compressor is exempt from the requirements of paragraphs (b) through (d) of this section if it is equipped with a system to capture and transport leakage from the compressor drive shaft seal to a process or a fuel gas system or to a closed vent system that captures and transports leakage from the compressor to a control device meeting the requirements of either §63.1034 or §63.1021(b).	Y	
63.1031(f)	(f) Alternative compressor standard.	Y	
63.1031(f)(1)	(1) Any compressor that is designated, as described in §63.1022(e), as operating with an instrument reading of less than 500 parts per million above background shall operate at all times with an instrument reading of less than 500 parts per million. A compressor so designated is exempt from the requirements of paragraphs (b) through (d) of this section if the compressor is demonstrated, initially upon designation, annually, and at other times requested by the Administrator to be operating with an instrument reading of less than 500 parts per million above background, as measured by the method specified in §63.1023(b) and, as applicable, §63.1023(c).	Y	
63.1031(f)(2)	(2) The owner or operator shall record the dates and results of each compliance test including the background level measured and the maximum instrument reading measured during each compliance test.	Y	
63.1032	Sampling connection systems standards	Y	
63.1032(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance dates specified in the referencing subpart.	Y	
63.1032(b)	(b) Equipment requirement. Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed vent system, except as provided in §§63.1021(b), 63.1036, 63.1037, or paragraph (d) of this section. Gases displaced during filling of the sample container are not required to be collected or captured.	Y	

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63.1032(c)	(c) Equipment design and operation. Each closed-purge, closed-loop, or closed vent system as required in paragraph (b) of this section shall meet the applicable requirements specified in paragraphs (c)(1) through (c)(5) of this section.	Y	
63.1032(c)(1)	(1) The system shall return the purged process fluid directly to a process line or to a fuel gas system that meets the requirements of either §63.1034 or §63.1021(b); or	Y	
63.1032(c)(3)	(3) Be designed and operated to capture and transport all the purged process fluid to a control device that meets the requirements of either §63.1034 or §63.1021(b); or	Y	
63.1032(c)(4)	(4) Collect, store, and transport the purged process fluid to a system or facility identified in paragraph (c)(4)(i), (c)(4)(ii), or (c)(4)(iii) of this section. (i) A waste management unit as defined in 40 CFR 63.111 or subpart G, if the waste management unit is subject to and operating in compliance with the provisions of 40 CFR part 63, subpart G, applicable to group 1 wastewater streams. If the purged process fluid does not contain any regulated material listed in Table 9 of 40 CFR part 63, subpart G, the waste management unit need not be subject to, and operated in compliance with the requirements of 40 CFR part 63, subpart G, applicable to group 1 wastewater streams provided the facility has a National Pollution Discharge Elimination System (NPDES) permit or sends the wastewater to an NPDES-permitted facility. (ii) A treatment, storage, or disposal facility subject to regulation under 40 CFR parts 262, 264, 265, or 266; or (iii) A facility permitted, licensed, or registered by a State to manage municipal or industrial solid waste, if the process fluids are not hazardous waste as defined in 40 CFR part 261.	Y	
63.1032(c)(5)	(5) Containers that are part of a closed purge system must be covered or closed when not being filled or emptied.	Y	
63.1032(d)	(d) In-situ sampling systems. In-situ sampling systems and sampling systems without purges are exempt from the requirements of paragraphs (b) and (c) of this section.	Y	
63.1033	Open-ended valves or lines standards	Y	
63.1033(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance date specified in the referencing subpart.	Y	
63.1033(b)	(b) Equipment and operational requirements.	Y	

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63.1033(b)(1)	(1) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in §63.1021(b), 63.1036, 63.1037, and paragraphs (c) and (d) of this section. The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance. The operational provisions of paragraphs (b)(2) and (b)(3) of this section also apply.	Y	
63.1033(b)(2)	(2) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.	Y	
63.1033(b)(3)	(3) When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (b)(1) of this section at all other times.	Y	
63.1033(c)	(c) Emergency shutdown exemption. Open-ended valves or lines in an emergency shutdown system that are designed to open automatically in the event of a process upset are exempt from the requirements of paragraph (b) of this section.	Y	
63.1033(d)	(d) Polymerizing materials exemption. Open-ended valves or lines containing materials that would autocatalytically polymerize or, would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in paragraph (b) of this section are exempt from the requirements of paragraph (b) of this section.	Y	
63.1034	Closed vent systems and control devices; or emissions routed to a fuel gas system or process standards	Y	
63.1034(a)	(a) Compliance schedule. The owner or operator shall comply with this section no later than the compliance date specified in the referencing subpart.	Y	
63.1034(b)	(b) Compliance standard.	Y	
63.1034(b)(1)	(1) Owners or operators routing emissions from equipment leaks to a fuel gas system or process shall comply with the provisions of subpart SS of this part, except as provided in §63.1002(b).	Y	
63.1034(b)(2)	(2) Owners or operators of closed vent systems and control devices used to comply with the provisions of this subpart shall comply with the provisions of subpart SS of this part and (b)(2)(i) through (b)(2)(iii) of this section, except as provided in §63.1002(b).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1034(b)(2)(i)	(i) Nonflare control devices shall be designed and operated to reduce emissions of regulated material vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, whichever is less stringent. The 20 parts per million by volume standard is not applicable to the provisions of §63.1016.	Y	
63.1034(b)(2)(ii)	(ii) Enclosed combustion devices shall be designed and operated to reduce emissions of regulated material vented to them with an efficiency of 95 percent or greater, or to an exit concentration of 20 parts per million by volume, on a dry basis, corrected to 3 percent oxygen, whichever is less stringent, or to provide a minimum residence time of 0.50 seconds at a minimum temperature of 760 °C (1400 °F).	Y	
63.1035	Quality improvement program for pumps	Y	
63.1035(a)	(a) Criteria. If, on a 6-month rolling average, at least the greater of either 10 percent of the pumps in a process unit or affected facility (or plant site) or three pumps in a process unit or affected facility (or plant site) leak, the owner or operator shall comply with the requirements specified in paragraphs (a)(1) and (a)(2) of this section.	Y	
63.1035(a)(1)	(1) Pumps that are in food and medical service or in polymerizing monomer service shall comply with all requirements except for those specified in paragraph (d)(8) of this section.	Y	
63.1035(a)(2)	(2) Pumps that are not in food and medical or polymerizing monomer service shall comply with all of the requirements of this section.	Y	
63.1035(b)	(b) Exiting the QIP. The owner or operator shall comply with the requirements of this section until the number of leaking pumps is less than the greater of either 10 percent of the pumps or three pumps, calculated as a 6-month rolling average, in the process unit or affected facility (or plant site). Once the performance level is achieved, the owner or operator shall comply with the requirements in §63.1026.	Y	
63.1035(c)	(c) Resumption of QIP. If, in a subsequent monitoring period, the process unit or affected facility (or plant site) has greater than either 10 percent of the pumps leaking or three pumps leaking (calculated as a 6-month rolling average), the owner or operator shall resume the quality improvement program starting at performance trials.	Y	
63.1035(d)	(d) QIP requirements. The quality improvement program shall meet the requirements specified in paragraphs (d)(1) through (d)(8) of this section.	Y	
63.1035(d)(1)	(1) The owner or operator shall comply with the requirements in §63.1026.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(d)(2)	(2) Data collection. The owner or operator shall collect the data specified in paragraphs (d)(2)(i) through (d)(2)(v) of this section and maintain records for each pump in each process unit or affected facility (or plant site) subject to the quality improvement program. The data may be collected and the records may be maintained on a process unit, affected facility, or plant site basis.	Y	
63.1035(d)(2)(i)	(i) Pump type (e.g., piston, horizontal or vertical centrifugal, gear, bellows); pump manufacturer; seal type and manufacturer; pump design (e.g., external shaft, flanged body); materials of construction; if applicable, barrier fluid or packing material; and year installed.	Y	
63.1035(d)(2)(ii)	(ii) Service characteristics of the stream such as discharge pressure, temperature, flow rate, corrosivity, and annual operating hours.	Y	
63.1035(d)(2)(iii)	(iii) The maximum instrument readings observed in each monitoring observation before repair, response factor for the stream if appropriate, instrument model number, and date of the observation.	Y	
63.1035(d)(2)(iv)	(iv) If a leak is detected, the repair methods used and the instrument readings after repair.	Y	
63.1035(d)(2)(v)	(v) If the data will be analyzed as part of a larger analysis program involving data from other plants or other types of process units or affected facilities, a description of any maintenance or quality assurance programs used in the process unit or affected facility that are intended to improve emission performance.	Y	
63.1035(d)(3)	(3) The owner or operator shall continue to collect data on the pumps as long as the process unit or affected facility (or plant site) remains in the quality improvement program.	Y	
63.1035(d)(4)	(4) Pump or pump seal inspection. The owner or operator shall inspect all pumps or pump seals that exhibited frequent seal failures and were removed from the process unit or affected facility due to leaks. The inspection shall determine the probable cause of the pump seal failure or of the pump leak and shall include recommendations, as appropriate, for design changes or changes in specifications to reduce leak potential.	Y	
63.1035(d)(5)(i)	(i) Data analysis. The owner or operator shall analyze the data collected to comply with the requirements of paragraph (d)(2) of this section to determine the services, operating or maintenance practices, and pump or pump seal designs or technologies that have poorer than average emission performance and those that have better than average emission performance. The analysis shall determine if specific trouble areas can be identified on the basis of service, operating conditions or maintenance practices, equipment design, or other process-specific factors.	Y	

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Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(d)(5)(ii)	(ii) The analysis shall also be used to determine if there are superior performing pump or pump seal technologies that are applicable to the service(s), operating conditions, or pump or pump seal designs associated with poorer than average emission performance. A superior performing pump or pump seal technology is one with a leak frequency of less than 10 percent for specific applications in the process unit, affected facility, or plant site. A candidate superior performing pump or pump seal technology is one demonstrated or reported in the available literature or through a group study as having low emission performance and as being capable of achieving less than 10 percent leaking pumps in the process unit or affected facility (or plant site).	Y	
63.1035(d)(5)(iii)	(iii) The analysis shall include consideration of the information specified in paragraphs (d)(5)(iii)(A) through (d)(5)(iii)(C) of this section.	Y	
63.1035(d)(5)(iii)(A)	(A) The data obtained from the inspections of pumps and pump seals removed from the process unit or affected facility due to leaks;	Y	
63.1035(d)(5)(iii)(B)	(B) Information from the available literature and from the experience of other plant sites that will identify pump designs or technologies and operating conditions associated with low emission performance for specific services; and	Y	
63.1035(d)(5)(iii)(C)	(C) Information on limitations on the service conditions for the pump seal technology operating conditions as well as information on maintenance procedures to ensure continued low emission performance.	Y	
63.1035(d)(5)(iv)	(iv) The data analysis may be conducted through an inter- or intra-company program (or through some combination of the two approaches) and may be for a single process unit, a plant site, a company, or a group of process units.	Y	
63.1035(d)(5)(v)	(v) The first analysis of the data shall be completed no later than 18 months after the start of the quality improvement program. The first analysis shall be performed using data collected for a minimum of 6 months. An analysis of the data shall be done each year the process unit or affected facility is in the quality improvement program.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(d)(6)	(6) Trial evaluation program. A trial evaluation program shall be conducted at each plant site for which the data analysis does not identify use of superior performing pump seal technology or pumps that can be applied to the areas identified as having poorer than average performance, except as provided in paragraph (d)(6)(v) of this section. The trial program shall be used to evaluate the feasibility of using in the process unit or affected facility (or plant site) the pump designs or seal technologies, and operating and maintenance practices that have been identified by others as having low emission performance.	Y	
63.1035(d)(6)(i)	(i) The trial evaluation program shall include on-line trials of pump seal technologies or pump designs and operating and maintenance practices that have been identified in the available literature or in analysis by others as having the ability to perform with leak rates below 10 percent in similar services, as having low probability of failure, or as having no external actuating mechanism in contact with the process fluid. If any of the candidate superior performing pump seal technologies or pumps is not included in the performance trials, the reasons for rejecting specific technologies from consideration shall be documented as required in paragraph (e)(3)(ii) of this section.	Y	
63.1035(d)(6)(ii)	(ii) The number of pump seal technologies or pumps in the trial evaluation program shall be the lesser of 1 percent or two pumps for programs involving single process units or affected facilities and the lesser of 1 percent or five pumps for programs involving a plant site or groups of process units or affected facilities. The minimum number of pumps or pump seal technologies in a trial program shall be one.	Y	
63.1035(d)(6)(iii)	(iii) The trial evaluation program shall specify and include documentation of the information specified in paragraphs (d)(6)(iii)(A) through (d)(6)(iii)(D) of this section. (A) The candidate superior performing pump seal designs or technologies to be evaluated, the stages for evaluating the identified candidate pump designs or pump seal technologies, including the time period necessary to test the applicability; (B) The frequency of monitoring or inspection of the equipment; (C) The range of operating conditions over which the component will be evaluated; and (D) Conclusions regarding the emission performance and the appropriate operating conditions and services for the trial pump seal technologies or pumps.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(d)(6)(iv)	(iv) The performance trials shall initially be conducted, at least, for a 6-month period beginning not later than 18 months after the start of the quality improvement program. No later than 24 months after the start of the quality improvement program, the owner or operator shall have identified pump seal technologies or pump designs that, combined with appropriate process, operating, and maintenance practices, operate with low emission performance for specific applications in the process unit or affected facility. The owner or operator shall continue to conduct performance trials as long as no superior performing design or technology has been identified, except as provided in paragraph (d)(6)(vi) of this section. The initial list of superior emission performance pump designs or pump seal technologies shall be amended in the future, as appropriate, as additional information and experience are obtained.	Y	
63.1035(d)(6)(v)	(v) Any plant site with fewer than 400 valves and owned by a corporation with fewer than 100 employees shall be exempt from trial evaluations of pump seals or pump designs. Plant sites exempt from the trial evaluations of pumps shall begin the pump seal or pump replacement program at the start of the fourth year of the quality improvement program.	Y	
63.1035(d)(6)(vi)	(vi) An owner or operator who has conducted performance trials on all alternative superior emission performance technologies suitable for the required applications in the process unit or affected facility may stop conducting performance trials provided that a superior performing design or technology has been demonstrated or there are no technically feasible alternative superior technologies remaining. The owner or operator shall prepare an engineering evaluation documenting the physical, chemical, or engineering basis for the judgment that the superior emission performance technology is technically infeasible or demonstrating that it would not reduce emissions.	Y	

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Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(d)(7)	(7) Quality assurance program. Each owner or operator shall prepare and implement a pump quality assurance program that details purchasing specifications and maintenance procedures for all pumps and pump seals in the process unit or affected facility. The quality assurance program may establish any number of categories, or classes, of pumps as needed to distinguish among operating conditions and services associated with poorer than average emission performance as well as those associated with better than average emission performance. The quality assurance program shall be developed considering the findings of the data analysis required under paragraph (d)(5) of this section; and, if applicable, the findings of the trial evaluation required in paragraph (d)(6) of this section; and the operating conditions in the process unit or affected facility. The quality assurance program shall be updated each year as long as the process unit or affected facility has the greater of either 10 percent or more leaking pumps or has three leaking pumps.	Y	
63.1035(d)(7)(i)	(i) The quality assurance program shall meet the requirements specified in paragraphs (d)(7)(i)(A) through (d)(7)(i)(D) of this section. (A) Establish minimum design standards for each category of pumps or pump seal technology. The design standards shall specify known critical parameters such as tolerance, manufacturer, materials of construction, previous usage, or other applicable identified critical parameters; (B) Require that all equipment orders specify the design standard (or minimum tolerances) for the pump or the pump seal; (C) Provide for an audit procedure for quality control of purchased equipment to ensure conformance with purchase specifications. The audit program may be conducted by the owner or operator of the plant site or process unit or affected facility, or by a designated representative; and (D) Detail off-line pump maintenance and repair procedures. These procedures shall include provisions to ensure that rebuilt or refurbished pumps and pump seals will meet the design specifications for the pump category and will operate so that emissions are minimized.	Y	
63.1035(d)(7)(ii)	(ii) The quality assurance program shall be established no later than the start of the third year of the quality improvement program for plant sites with 400 or more valves or 100 or more employees; and no later than the start of the fourth year of the quality improvement program for plant sites with less than 400 valves and less than 100 employees.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(d)(8)	(8) Pump or pump seal replacement. Three years after the start of the quality improvement program for plant sites with 400 or more valves or 100 or more employees and at the start of the fourth year of the quality improvement program for plant sites with less than 400 valves and less than 100 employees, the owner or operator shall replace, as described in paragraphs (d)(8)(i) and (d)(8)(ii) of this section, the pumps or pump seals that are not superior emission performance technology with pumps or pump seals that have been identified as superior emission performance technology and that comply with the quality assurance standards for the pump category. Superior emission performance technology is that category or design of pumps or pump seals with emission performance that when combined with appropriate process, operating, and maintenance practices, will result in less than 10 percent leaking pumps for specific applications in the process unit, affected facility, or plant site. Superior emission performance technology includes material or design changes to the existing pump, pump seal, seal support system, installation of multiple mechanical seals or equivalent, or pump replacement.	Y	
63.1035(d)(8)(i)	(i) Pumps or pump seals shall be replaced at the rate of 20 percent per year based on the total number of pumps in light liquid service. The calculated value shall be rounded to the nearest nonzero integer value. The minimum number of pumps or pump seals shall be one. Pump replacement shall continue until all pumps subject to the requirements of §63.1026 are pumps determined to be superior performance technology.	Y	
63.1035(d)(8)(ii)	(ii) The owner or operator may delay replacement of pump seals or pumps with superior technology until the next planned process unit or affected facility shutdown, provided the number of pump seals and pumps replaced is equivalent to the 20 percent or greater annual replacement rate.	Y	
63.1035(d)(8)(iii)	(iii) The pumps shall be maintained as specified in the quality assurance program.	Y	
63.1035(e)	(e) QIP recordkeeping. In addition to the records required by paragraph (d)(2) of this section, the owner or operator shall maintain records for the period of the quality improvement program for the process unit or affected facility as specified in paragraphs (e)(1) through (e)(6) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1035(e)(1)	(1) When using a pump quality improvement program as specified in this section, record the information specified in paragraphs (e)(1)(i) through (e)(1)(iii) of this section. (i) The rolling average percent leaking pumps. (ii) Documentation of all inspections conducted under the requirements of paragraph (d)(4) of this section, and any recommendations for design or specification changes to reduce leak frequency. (iii) The beginning and ending dates while meeting the requirements of paragraph (d) of this section.	Y	
63.1035(e)(2)	(2) If a leak is not repaired within 15 calendar days after discovery of the leak, the reason for the delay and the expected date of successful repair.	Y	
63.1035(e)(3)	(3) Records of all analyses required in paragraph (d) of this section. The records will include the information specified in paragraphs (e)(3)(i) through (e)(3)(iv) of this section. (i) A list identifying areas associated with poorer than average performance and the associated service characteristics of the stream, the operating conditions and maintenance practices. (ii) The reasons for rejecting specific candidate superior emission performing pump technology from performance trials. (iii) The list of candidate superior emission performing valve or pump technologies, and documentation of the performance trial program items required under paragraph (d)(6)(iii) of this section. (iv) The beginning date and duration of performance trials of each candidate superior emission performing technology.	Y	
63.1035(e)(4)	(4) All records documenting the quality assurance program for pumps as specified in paragraph (d)(7) of this section, including records indicating that all pumps replaced or modified during the period of the quality improvement program are in compliance with the quality assurance.	Y	
63.1035(e)(5)	(5) Records documenting compliance with the 20 percent or greater annual replacement rate for pumps as specified in paragraph (d)(8) of this section.	Y	
63.1035(e)(6)	(6) Information and data to show the corporation has fewer than 100 employees, including employees providing professional and technical contracted services.	Y	
63.1036	Alternative means of emission limitation: Batch processes	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1036(a)	(a) General requirement. As an alternative to complying with the requirements of §§63.1025 through 63.1033 and §63.1035, an owner or operator of a batch process that operates in regulated material service during the calendar year may comply with one of the standards specified in paragraphs (b) and (c) of this section, or the owner or operator may petition for approval of an alternative standard under the provisions of §63.1021(b). The alternative standards of this section provide the options of pressure testing or monitoring the equipment for leaks. The owner or operator may switch among the alternatives provided the change is documented as specified in paragraph (b)(7) of this section.	Y	
63.1036(b)	(b) Pressure testing of the batch equipment. The following requirements shall be met if an owner or operator elects to use pressure testing of equipment to demonstrate compliance with this subpart.	Y	
63.1036(b)(1)	(1) Reconfiguration. Each time equipment is reconfigured for production of a different product or intermediate, the batch product-process equipment train shall be pressure-tested for leaks before regulated material is first fed to the equipment and the equipment is placed in regulated material service. (i) When the batch product-process equipment train is reconfigured to produce a different product, pressure testing is required only for the new or disturbed equipment. (ii) Each batch product process that operates in regulated material service during a calendar year shall be pressure-tested at least once during that calendar year. (iii) Pressure testing is not required for routine seal breaks, such as changing hoses or filters, that are not part of the reconfiguration to produce a different product or intermediate. The requirements for pressure testing in §63.178(b) or §63.1036(b) may be applied to all processes, not just batch processes. Pressure testing for leaks is not required after reconfiguration of an equipment train if flexible hose connections are the only disturbed equipment.	Y	
63.1036(b)(2)	(2) Testing procedures. The batch product process equipment shall be tested either using the procedures specified in paragraph (b)(5) of this section for pressure vacuum loss or with a liquid using the procedures specified in paragraph (b)(6) of this section.	Y	
63.1036(b)(3)	(3) Leak detection.	Y	
63.1036(b)(3)(i)	(i) For pressure or vacuum tests using a gas, a leak is detected if the rate of change in pressure is greater than 6.9 kilopascals (1 pound per square inch gauge) in 1 hour or if there is visible, audible, or olfactory evidence of fluid loss.	Y	
63.1036(b)(3)(ii)	(ii) For pressure tests using a liquid, a leak is detected if there are indications of liquids dripping or if there is other evidence of fluid loss.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1036(b)(4)	(4) Leak repair.	Y	
63.1036(b)(4)(i)	(i) If a leak is detected, it shall be repaired and the batch product-process equipment shall be retested before start-up of the process.	Y	
63.1036(b)(4)(ii)	(ii) If a batch product-process fails the retest (the second of two consecutive pressure tests), it shall be repaired as soon as practical, but not later than 30 calendar days after the second pressure test except as specified in paragraph (e) of this section.	Y	
63.1036(b)(5)	(5) Gas pressure test procedure for pressure or vacuum loss. The procedures specified in paragraphs (b)(5)(i) through (b)(5)(v) of this section shall be used to pressure test batch product-process equipment for pressure or vacuum loss to demonstrate compliance with the requirements of paragraph (b)(3)(i) of this section.	Y	
63.1036(b)(5)(i)	(i) The batch product-process equipment train shall be pressurized with a gas to a pressure less than the set pressure of any safety relief devices or valves or to a pressure slightly above the operating pressure of the equipment, or alternatively the equipment shall be placed under a vacuum.	Y	
63.1036(b)(5)(ii)	(ii) Once the test pressure is obtained, the gas source or vacuum source shall be shut off.	Y	
63.1036(b)(5)(iii)	(iii) The test shall continue for not less than 15 minutes unless it can be determined in a shorter period of time that the allowable rate of pressure drop or of pressure rise was exceeded. The pressure in the batch product-process equipment shall be measured after the gas or vacuum source is shut off and at the end of the test period. The rate of change in pressure in the batch product-process equipment shall be calculated using the following equation: $\Delta(P/t) = \frac{(P_f - P_i)}{(t_f - t_i)} \quad \text{[Eq. 5]}$ Where: Δ (P/t) = Change in pressure, pounds per square inch gauge per hour. Pf = Final pressure, pounds per square inch gauge. Pi = Initial pressure, pounds per square inch gauge. tf - ti = Elapsed time, hours.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1036(b)(5)(iv)	(iv) The pressure shall be measured using a pressure measurement device (gauge, manometer, or equivalent) that has a precision of ± 2.5 millimeter mercury (0.10 inch of mercury) in the range of test pressure and is capable of measuring pressures up to the relief set pressure of the pressure relief device. If such a pressure measurement device is not reasonably available, the owner or operator shall use a pressure measurement device with a precision of at least ± 10 percent of the test pressure of the equipment and shall extend the duration of the test for the time necessary to detect a pressure loss or rise that equals a rate of 1 pound per square inch gauge per hour (7 kilopascals per hour).	Y	
63.1036(b)(5)(v)	(v) An alternative procedure may be used for leak testing the equipment if the owner or operator demonstrates the alternative procedure is capable of detecting a pressure loss or rise.	Y	
63.1036(b)(6)	(6) Pressure test procedure using test liquid. The procedures specified in paragraphs (b)(6)(i) through (b)(6)(iv) of this section shall be used to pressure-test batch product-process equipment using a liquid to demonstrate compliance with the requirements of paragraph (b)(3)(ii) of this section.	Y	
63.1036(b)(6)(i)	(i) The batch product-process equipment train, or section of the equipment train, shall be filled with the test liquid (e.g., water, alcohol) until normal operating pressure is obtained. Once the equipment is filled, the liquid source shall be shut off.	Y	
63.1036(b)(6)(ii)	(ii) The test shall be conducted for a period of at least 60 minutes, unless it can be determined in a shorter period of time that the test is a failure.	Y	
63.1036(b)(6)(iii)	(iii) Each seal in the equipment being tested shall be inspected for indications of liquid dripping or other indications of fluid loss. If there are any indications of liquids dripping or of fluid loss, a leak is detected.	Y	
63.1036(b)(6)(iv)	(iv) An alternative procedure may be used for leak testing the equipment, if the owner or operator demonstrates the alternative procedure is capable of detecting losses of fluid.	Y	
63.1036(b)(7)	(7) Pressure testing recordkeeping. The owner or operator of a batch product process who elects to pressure test the batch product process equipment train to demonstrate compliance with this subpart shall maintain records of the information specified in paragraphs (b)(7)(i) through (b)(7)(v) of this section.	Y	
63.1036(b)(7)(i)	(i) The identification of each product, or product code, produced during the calendar year. It is not necessary to identify individual items of equipment in a batch product process equipment train.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1036(b)(7)(ii)	(ii) Physical tagging of the equipment to identify that it is in regulated material service and subject to the provisions of this subpart is not required. Equipment in a batch product process subject to the provisions of this subpart may be identified on a plant site plan, in log entries, or by other appropriate methods.	Y	
63.1036(b)(7)(iii)	(iii) The dates of each pressure test required in paragraph (b) of this section, the test pressure, and the pressure drop observed during the test.	Y	
63.1036(b)(7)(iv)	(iv) Records of any visible, audible, or olfactory evidence of fluid loss.	Y	
63.1036(b)(7)(v)	(v) When a batch product process equipment train does not pass two consecutive pressure tests, the information specified in paragraphs (b)(7)(v)(A) through (b)(7)(v)(E) of this section shall be recorded in a log and kept for 2 years: (A) The date of each pressure test and the date of each leak repair attempt. (B) Repair methods applied in each attempt to repair the leak. (C) The reason for the delay of repair. (D) The expected date for delivery of the replacement equipment and the actual date of delivery of the replacement equipment; and (E) The date of successful repair.	Y	
63.1036(c)	(c) Equipment monitoring. The following requirements shall be met if an owner or operator elects to monitor the equipment in a batch process to detect leaks by the method specified in §63.1023(b) and, as applicable, §63.1023(c), to demonstrate compliance with this subpart.	Y	
63.1036(c)(1)	(1) The owner or operator shall comply with the requirements of §§63.1025 through 63.1035 as modified by paragraphs (c)(2) through (c)(4) of this section.	Y	
63.1036(c)(2)	(2) The equipment shall be monitored for leaks by the method specified in §63.1023(b) and, as applicable, §63.1023(c), when the equipment is in regulated material service or is in use with any other detectable material.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1036(c)(3)	(3) The equipment shall be monitored for leaks as specified in paragraphs (c)(3)(i) through (c)(3)(iv) of this section. (i) Each time the equipment is reconfigured for the production of a new product, the reconfigured equipment shall be monitored for leaks within 30 days of start-up of the process. This initial monitoring of reconfigured equipment shall not be included in determining percent leaking equipment in the process unit or affected facility. (ii) Connectors shall be monitored in accordance with the requirements in §63.1027. (iii) Equipment other than connectors shall be monitored at the frequencies specified in table 1 to this subpart. The operating time shall be determined as the proportion of the year the batch product-process that is subject to the provisions of this subpart is operating. (iv) The monitoring frequencies specified in paragraph (c)(3)(iii) of this section are not requirements for monitoring at specific intervals and can be adjusted to accommodate process operations. An owner or operator may monitor anytime during the specified monitoring period (e.g., month, quarter, year), provided the monitoring is conducted at a reasonable interval after completion of the last monitoring campaign. For example, if the equipment is not operating during the scheduled monitoring period, the monitoring can be done during the next period when the process is operating.	Y	
63.1036(c)(4)	(4) If a leak is detected, it shall be repaired as soon as practical but not later than 15 calendar days after it is detected, except as provided in paragraph (e) of this section.	Y	
63.1036(d)	(d) Added equipment recordkeeping.	Y	
63.1036(d)(1)	(1) For batch product-process units or affected facilities that the owner or operator elects to monitor as provided under paragraph (c) of this section, the owner or operator shall prepare a list of equipment added to batch product process units or affected facilities since the last monitoring period required in paragraphs (c)(3)(ii) and (c)(3)(iii) of this section.	Y	
63.1036(d)(2)	(2) Maintain records demonstrating the proportion of the time during the calendar year the equipment is in use in a batch process that is subject to the provisions of this subpart. Examples of suitable documentation are records of time in use for individual pieces of equipment or average time in use for the process unit or affected facility. These records are not required if the owner or operator does not adjust monitoring frequency by the time in use, as provided in paragraph (c)(3)(iii) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1036(d)(3)	(3) Record and keep pursuant to the referencing subpart and this subpart, the date and results of the monitoring required in paragraph (c)(3)(i) of this section for equipment added to a batch product-process unit or affected facility since the last monitoring period required in paragraphs (c)(3)(ii) and (c)(3)(iii) of this section. If no leaking equipment is found during this monitoring, the owner or operator shall record that the inspection was performed. Records of the actual monitoring results are not required.	Y	
63.1036(e)	(e) Delay of repair. Delay of repair of equipment for which leaks have been detected is allowed if the replacement equipment is not available providing the conditions specified in paragraphs (e)(1) and (e)(2) of this section are met.	Y	
63.1036(e)(1)	(1) Equipment supplies have been depleted and supplies had been sufficiently stocked before the supplies were depleted.	Y	
63.1036(e)(2)	(2) The repair is made no later than 10 calendar days after delivery of the replacement equipment.	Y	
63.1036(f)	(f) Periodic report contents. For owners or operators electing to meet the requirements of paragraph (b) of this section, the Periodic Report to be filed pursuant to §63.1039(b) shall include the information listed in paragraphs (f)(1) through (f)(4) of this section for each process unit. (1) Batch product process equipment train identification; (2) The number of pressure tests conducted; (3) The number of pressure tests where the equipment train failed the pressure test; and (4) The facts that explain any delay of repairs.	Y	
63.1037	Alternative means of emission limitation: Enclosed-vented process units or affected facilities	Y	
63.1037(a)	(a) Use of closed vent system and control device. Process units or affected facilities or portions of process units at affected facilities enclosed in such a manner that all emissions from equipment leaks are vented through a closed vent system to a control device or routed to a fuel gas system or process meeting the requirements of §63.1034 are exempt from the requirements of §§63.1025 through 63.1033 and 63.1035. The enclosure shall be maintained under a negative pressure at all times while the process unit or affected facility is in operation to ensure that all emissions are routed to a control device.	Y	
63.1037(b)	(b) Recordkeeping. Owners and operators choosing to comply with the requirements of this section shall maintain the records specified in paragraphs (b)(1) through (b)(3) of this section.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1037(b)(1)	(1) Identification of the process unit(s) or affected facilities and the regulated materials they handle.	Y	
63.1037(b)(2)	(2) A schematic of the process unit or affected facility, enclosure, and closed vent system.	Y	
63.1037(b)(3)	(3) A description of the system used to create a negative pressure in the enclosure to ensure that all emissions are routed to the control device.	Y	
63.1038	Recordkeeping requirements	Y	
63.1038(a)	(a) Recordkeeping system. An owner or operator of more than one regulated source subject to the provisions of this subpart may comply with the recordkeeping requirements for these regulated sources in one recordkeeping system. The recordkeeping system shall identify each record by regulated source and the type of program being implemented (e.g., quarterly monitoring, quality improvement) for each type of equipment. The records required by this subpart are summarized in paragraphs (b) and (c) of this section.	Y	
63.1038(b)	(b) General equipment leak records.	Y	
63.1038(b)(1)	(1) As specified in §63.1022(a) and (b), the owner or operator shall keep general and specific equipment identification if the equipment is not physically tagged and the owner or operator is electing to identify the equipment subject to this subpart through written documentation such as a log or other designation.	Y	
63.1038(b)(2)	(2) The owner or operator shall keep a written plan as specified in §63.1022(c)(4) for any equipment that is designated as unsafe- or difficult-to-monitor.	Y	
63.1038(b)(3)	(3) The owner or operator shall maintain a record of the identity and an explanation as specified in §63.1022(d)(2) for any equipment that is designated as unsafe-to-repair.	Y	
63.1038(b)(4)	(4) As specified in §63.1022(e), the owner or operator shall maintain the identity of compressors operating with an instrument reading of less than 500 parts per million.	Y	
63.1038(b)(5)	(5) The owner or operator shall keep records associated with the determination that equipment is in heavy liquid service as specified in §63.1022(f).	Y	
63.1038(b)(6)	(6) The owner or operator shall keep records for leaking equipment as specified in §63.1023(e)(2).	Y	
63.1038(b)(7)	(7) The owner or operator shall keep records for leak repair as specified in §63.1024(f) and records for delay of repair as specified in §63.1024(d).	Y	

Table IV – J.1
Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1038(c)	(c) Specific equipment leak records.	Y	
63.1038(c)(1)	(1) For valves, the owner or operator shall maintain the records specified in paragraphs (c)(1)(i) and (c)(1)(ii) of this section.	Y	
63.1038(c)(1)(i)	(i) The monitoring schedule for each process unit as specified in §63.1025(b)(3)(vi).	Y	
63.1038(c)(1)(ii)	(ii) The valve subgrouping records specified in §63.1025(b)(4)(iv), if applicable.	Y	
63.1038(c)(2)	(2) For pumps, the owner or operator shall maintain the records specified in paragraphs (c)(2)(i) through (c)(2)(iii) of this section.	Y	
63.1038(c)(2)(i)	(i) Documentation of pump visual inspections as specified in §63.1026(b)(4).	Y	
63.1038(c)(2)(ii)	(ii) Documentation of dual mechanical seal pump visual inspections as specified in §63.1026(e)(1)(v).	Y	
63.1038(c)(2)(iii)	(iii) For the criteria as to the presence and frequency of drips for dual mechanical seal pumps, records of the design criteria and explanations and any changes and the reason for the changes, as specified in §63.1026(e)(1)(i).	Y	
63.1038(c)(3)	(3) For connectors, the owner or operator shall maintain the monitoring schedule for each process unit as specified in §63.1027(b)(3)(v).	Y	
63.1038(c)(4)	(4) For agitators, the owner or operator shall maintain the following records:	Y	
63.1038(c)(4)(i)	(i) Documentation of agitator seal visual inspections as specified in §63.1028; and	Y	
63.1038(c)(4)(ii)	(ii) For the criteria as to the presence and frequency of drips for agitators, the owner or operator shall keep records of the design criteria and explanations and any changes and the reason for the changes, as specified in §63.1028(e)(1)(vi).	Y	
63.1038(c)(5)	(5) For pressure relief devices in gas and vapor or light liquid service, the owner or operator shall keep records of the dates and results of monitoring following a pressure release, as specified in §63.2480(e)(2).	Y	
63.1038(c)(6)	(6) For compressors, the owner or operator shall maintain the records specified in paragraphs (c)(6)(i) and (c)(6)(ii) of this section.	Y	
63.1038(c)(6)(i)	(i) For criteria as to failure of the seal system and/or the barrier fluid system, record the design criteria and explanations and any changes and the reason for the changes, as specified in §63.1031(d)(2).	Y	

Table IV – J.1
Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1038(c)(6)(ii)	(ii) For compressors operating under the alternative compressor standard, record the dates and results of each compliance test as specified in §63.1031(f)(2).	Y	
63.1038(c)(7)	(7) For a pump QIP program, the owner or operator shall maintain the records specified in paragraphs (c)(7)(i) through (c)(7)(v) of this section.	Y	
63.1038(c)(7)(i)	(i) Individual pump records as specified in §63.1035(d)(2).	Y	
63.1038(c)(7)(ii)	(ii) Trial evaluation program documentation as specified in §63.1035(d)(6)(iii).	Y	
63.1038(c)(7)(iii)	(iii) Engineering evaluation documenting the basis for judgement that superior emission performance technology is not applicable as specified in §63.1035(d)(6)(vi).	Y	
63.1038(c)(7)(iv)	(iv) Quality assurance program documentation as specified in §63.1035(d)(7).	Y	
63.1038(c)(7)(v)	(v) QIP records as specified in §63.1035(e).	Y	
63.1038(c)(8)	(8) For process units complying with the batch process unit alternative, the owner or operator shall maintain the records specified in paragraphs (c)(8)(i) and (c)(8)(ii) of this section.	Y	
63.1038(c)(8)(i)	(i) Pressure test records as specified in §63.1036(b)(7).	Y	
63.1038(c)(8)(ii)	(ii) Records for equipment added to the process unit as specified in §63.1036(d).	Y	
63.1038(c)(9)	(9) For process units complying with the enclosed-vented process unit alternative, the owner or operator shall maintain the records for enclosed-vented process units as specified in §63.1037(b).	Y	
63.1039	Reporting requirements	Y	
63.1039(a)	(a) Initial Compliance Status Report. Each owner or operator shall submit an Initial Compliance Status Report according to the procedures in the referencing subpart. The notification shall include the information listed in paragraphs (a)(1) through (a)(3) of this section, as applicable.	Y	
63.1039(a)(1)	(1) The notification shall provide the information listed in paragraphs (a)(1)(i) through (a)(1)(iv) of this section for each process unit or affected facility subject to the requirements of this subpart. (i) Process unit or affected facility identification. (ii) Number of each equipment type (e.g., valves, pumps) excluding equipment in vacuum service. (iii) Method of compliance with the standard (e.g., “monthly leak detection and repair” or “equipped with dual mechanical seals”). (iv) Planned schedule for requirements in §§63.1025 and 63.1026.	Y	

Table IV – J.1
Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1039(a)(2)	(2) The notification shall provide the information listed in paragraphs (a)(2)(i) and (a)(2)(ii) of this section for each process unit or affected facility subject to the requirements of §63.1036(b). (i) Batch products or product codes subject to the provisions of this subpart, and (ii) Planned schedule for pressure testing when equipment is configured for production of products subject to the provisions of this subpart.	Y	
63.1039(a)(3)	(3) The notification shall provide the information listed in paragraphs (a)(3)(i) and (a)(3)(ii) of this section for each process unit or affected facility subject to the requirements in §63.1037. (i) Process unit or affected facility identification. (ii) A description of the system used to create a negative pressure in the enclosure and the control device used to comply with the requirements of §63.1034 of this part.	Y	
63.1039(b)	(b) Periodic Reports. The owner or operator shall report the information specified in paragraphs (b)(1) through (b)(8) of this section, as applicable, in the Periodic Report specified in the referencing subpart.	Y	
63.1039(b)(1)	(1) For the equipment specified in paragraphs (b)(1)(i) through (b)(1)(v) of this section, report in a summary format by equipment type, the number of components for which leaks were detected and for valves, pumps and connectors show the percent leakers, and the total number of components monitored. Also include the number of leaking components that were not repaired as required by §63.1024, and for valves and connectors, identify the number of components that are determined by §63.1025(c)(3) to be nonrepairable. (i) Valves in gas and vapor service and in light liquid service pursuant to §63.1025(b) and (c). (ii) Pumps in light liquid service pursuant to §63.1026(b) and (c). (iii) Connectors in gas and vapor service and in light liquid service pursuant to §63.1027(b) and (c). (iv) Agitators in gas and vapor service and in light liquid service pursuant to §63.1028(c). (v) Compressors pursuant to §63.1031(d).	Y	
63.1039(b)(2)	(2) Where any delay of repair is utilized pursuant to §63.1024(d), report that delay of repair has occurred and report the number of instances of delay of repair.	Y	
63.1039(b)(3)	(3) If applicable, report the valve subgrouping information specified in §63.1025(b)(4)(iv).	Y	
63.1039(b)(4)	(4) For pressure relief devices in gas and vapor service pursuant to §63.1030(b) and for compressors pursuant to §63.1031(f) that are to be operated at a leak detection instrument reading of less than 500 parts per million, report the results of all monitoring to show compliance conducted within the semiannual reporting period. Include information in the Compliance reports required by 63.2520(e)(15).	Y	

**Table IV – J.1
 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1039(b)(5)	(5) Report, if applicable, the initiation of a monthly monitoring program for valves pursuant to §63.1025(b)(3)(i).	Y	
63.1039(b)(6)	(6) Report, if applicable, the initiation of a quality improvement program for pumps pursuant to §63.1035.	Y	
63.1039(b)(7)	(7) Where the alternative means of emissions limitation for batch processes is utilized, report the information listed in §63.1036(f).	Y	
63.1039(b)(8)	(8) Report the information listed in paragraph (a) of this section for the Initial Compliance Status Report for process units or affected facilities with later compliance dates. Report any revisions to items reported in an earlier Initial Compliance Status Report if the method of compliance has changed since the last report.	Y	
40 CFR 63 Subpart R	NESHAPS for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/04/2020)	Y	
63.424	Standards: equipment leaks	Y	
63.424(a)	Perform leak inspections.	Y	
63.424(b)	Recordkeeping for inspections.	Y	
63.424(c)	Leak repair.	Y	
63.424(d)	Delay of repair.	Y	
63.424(e)	Compliance dates.	Y	
63.424(f)	Alternative leak monitoring program.	Y	
63.424(g)	Owners and operators shall not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time.	Y	
BAAQMD Condition 19199			
Part A5	100 ppm limit for pumps installed as part of Logistical Improvements for Application 2508 (Basis: BACT, Reg 8-18)	Y	
Part B5	100 ppm limit for pumps installed as part of Flare Gas Recovery Compressor Installation of Application 2508 (Basis: BACT, Reg 8-18)	Y	
Part G5	100 ppm limit for pumps installed as part of the S1105 No. 4 HDS installation of Application 2508 (Basis: BACT, Reg 8-18)	Y	
BAAQMD Condition 27596			
Part 1	Install only listed types of valves for Application No. 30768 (Basis: cumulative increase, BACT, offsets)	Y	

Table IV – J.1
Source-Specific Applicable Requirements

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	100 ppm TOC limit at valves installed as part of Application No. 30768 or comply with applicable minimization and repair provisions in Regulation 8-18 (Basis: BACT, Reg 8-18)	Y	
Part 3	Install only listed types of flanges/connectors for Application No. 30768 (Basis: BACT)	Y	
Part 4	100 ppm TOC limit at flanges/connectors installed as part of Application No. 30768 or comply with applicable minimization and repair provisions in Regulation 8-18 (Basis: BACT, Reg 8-18)	Y	
Part 5	Install only listed types of pumps for Application No. 30768, with exceptions for listed pumps. If two leaks in 5 year period, install listed control technology. (Basis: BACT)	Y	
Part 6	100 ppm TOC limit at pumps installed as part of Application No. 30768 or comply with applicable minimization and repair provisions in Regulation 8-18 (Basis: BACT, Reg 8-18)	Y	
Part 7	Install only listed types of compressors for Application No. 30768 (Basis: BACT)	Y	
Part 8	100 ppm TOC limit at compressors installed as part of Application No. 30768 or comply with applicable minimization and repair provisions in Regulation 8-18 (Basis: BACT, Reg 8-18)	Y	
Part 9	Control PRDs installed as part of Application No. 30768 and monitor for leaks (Basis: BACT, Reg 8-18, Reg 8-28, Reg 2-5)	Y	
Part 10	Identify all new components as part of Application No. 30768, monitor all repaired equipment within 24 hours of repair (Basis: Reg 8-18)	Y	
Part 11	Monitor emissions from installed components as part of Application No. 30768 compared to 10.276 tpy POC (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 12	Report final component count for those installed as part of Application No. 30768 (Basis: cumulative increase, offsets, Reg 8-18)	Y	
Part 13	Monitor fugitive emissions utilizing approved methods for those installed as part of Application No. 30768. (Basis: cumulative increase, BACT, offsets, Reg 8-18)	Y	
Part 14	Conduct inspections for components installed as part of Application No. 30768 according to listed frequencies (Basis: BACT, Reg 8-18)	Y	

**Table IV – J.1
 Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 15	S-850: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 1.96 lb/hr and/or 8.593 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 16	S-1003: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 1.57 lb/hr and/or 6.864 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 17	S-1007: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 1.69 lb/hr and/or 7.395 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 18	S-1008: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 1.15 lb/hr and/or 5.049 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 19	S-1526: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 1.21 lb/hr and/or 5.286 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 20	S-1600: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 0.36 lb/hr and/or 1.582 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	
Part 21	S-2001: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 0.47 lb/hr and/or 2.042 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	

**Table IV – J.1
Source-Specific Applicable Requirements**

Equipment Leak Components, Excluding Wastewater Components

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 22	S-2025: Compare count of installed components with counts permitted as part of Application No. 30768. Submit application if more components installed. Do not exceed 0.48 lb/hr and/or 2.088 tpy POC emissions from installed components. Keep records for 5 years. (Basis: cumulative increase, offsets, Reg 2-5, Reg 8-18)	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 28	Organic Compounds - Episodic Releases from Pressure Relief Devices at Refineries and Chemical Plants (11/03/2021)		
8-28-101	Description, applicability	N	
8-28-111	Exemption, Evaporation Point	N	
8-28-112	Exemption, Storage Tanks	Y	
8-28-115	Exemption, Thermal Relief Valves	N	
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Existing Pressure Relief Devices Petroleum Refineries	N	
8-28-303.1	Existing Pressure Relief Devices Petroleum Refineries; OPTION – vent to vapor recovery or disposal system with 95% of more control efficiency	N	
8-28-303.2	Existing Pressure Relief Devices Petroleum Refineries; OPTION – implement Process Safety Requirements (8-28-405)	N	
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	N	
8-28-304.1	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after first release	N	
8-28-304.2	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after second release	N	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-402.1	Inspection; daily inspection of PRDs with telltale indicators	N	
8-28-402.2	Inspection; after release, inspect within 5 working days for compliance with Regulation 8, Rule 18. Report per 8-28.401.9	N	
8-28-404	Identification	N	
8-28-405	Process Safety Requirements	N	
8-28-406	Monitoring System Demonstration Report	N	
8-28-407	Process Unit Identification Report	N	
8-28-502	Records	N	
8-28-502.1	Records; Prevention Measure Records	N	
8-28-502.2	Records; PRD records	N	
8-28-502.3	Records; Telltale indicator daily inspection records	N	
8-28-502.4	Records; PRD monitoring records	N	

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Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-28-503	Monitoring; monitoring system requirements	N	
8-28-602	Determination of Control Efficiency	N	
SIP Regulation 8 Rule 28	Organic Compounds - Episodic Releases from Pressure Relief Devices (05/24/2004)		
8-28-101	Description, applicability	Y	
8-28-111	Exemption, Evaporation Point (302 F); includes exemption for thermal relief valves	Y	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	Y	
8-28-303.1	Pressure Relief Devices at Existing Sources at Petroleum Refineries; OPTION – vent to vapor recovery or disposal system with 95% of more control efficiency	Y	
8-28-303.2	Pressure Relief Devices at Existing Sources at Petroleum Refineries; OPTION – implement Prevention Measure Procedures (SIP 8-28-405)	Y	
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	Y	
8-28-304.1	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after first release	Y	
8-28-304.2	Repeat Release - Pressure Relief Devices at Petroleum Refineries; requirements after second release	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection; after release, inspect within 5 working days for compliance with Regulation 8, Rule 18. Report per 8-28.401.9	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-405	Prevention Measures Procedures	Y	
8-28-602	Determination of Control Efficiency	Y	
40 CFR 63 Subpart EEEE	National Emissions Standards for Hazardous Air Pollutants: organic Liquids Distribution (Non-Gasoline) (11/19/2020)	Y	
63.2330	What is the purpose of this subpart?	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2330	This subpart establishes national emission limitations, operating limits, and work practice standards for organic hazardous air pollutants (HAP) emitted from organic liquids distribution (OLD) (non-gasoline) operations at major sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations, operating limits, and work practice standards.	Y	
63.2334	Am I Subject to this Subpart?	Y	
63.2334(a)	(a) Except as provided for in paragraphs (b) and (c) of this section, you are subject to this subpart if you own or operate an OLD operation that is located at, or is part of, a major source of HAP emissions. An OLD operation may occupy an entire plant site or be collocated with other industrial (<i>e.g.</i> , manufacturing) operations at the same plant site.	Y	
63.2334(b)	(b) Organic liquid distribution operations located at research and development facilities, consistent with section 112(c)(7) of the Clean Air Act (CAA), are not subject to this subpart.	Y	
63.2338	What parts of my plant does this subpart cover?	Y	
63.2338(a)	(a) This subpart applies to each new, reconstructed, or existing OLD operation affected source.	Y	
63.2338(b)	(b) Except as provided in paragraph (c) of this section, the affected source is the collection of activities and equipment used to distribute organic liquids into, out of, or within a facility that is a major source of HAP. The affected source is composed of:	Y	
63.2338(b)(3)	(3) All equipment leak components in organic liquids service that are associated with:	Y	
63.2338(b)(3)(i)	(i) Storage tanks storing organic liquids;	Y	
63.2338(b)(3)(ii)	(ii) Transfer racks loading or unloading organic liquids;	Y	
63.2338(b)(3)(iii)	(iii) Pipelines that transfer organic liquids directly between two storage tanks that are subject to this subpart;	Y	
63.2338(b)(3)(iv)	(iv) Pipelines that transfer organic liquids directly between a storage tank subject to this subpart and a transfer rack subject to this subpart; and	Y	
63.2338(b)(3)(v)	(v) Pipelines that transfer organic liquids directly between two transfer racks that are subject to this subpart.	Y	

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Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2338(c)	(c) The equipment listed in paragraphs (c)(1) through (3) of this section and used in the identified operations is excluded from the affected source.	Y	
63.2338(c)(1)	(1) Storage tanks, transfer racks, transport vehicles, containers, and equipment leak components that are part of an affected source under another 40 CFR part 63 national emission standards for hazardous air pollutants (NESHAP).	Y	
63.2338(c)(2)	(2) Non-permanent storage tanks, transfer racks, transport vehicles, containers, and equipment leak components when used in special situation distribution loading and unloading operations (such as maintenance or upset liquids management).	Y	
63.2338(c)(3)	(3) Storage tanks, transfer racks, transport vehicles, containers, and equipment leak components when used to conduct maintenance activities, such as stormwater management, liquid removal from tanks for inspections and maintenance, or changeovers to a different liquid stored in a storage tank.	Y	
63.2338(d)	(d) An affected source is a new affected source if you commenced construction of the affected source after April 2, 2002, and you meet the applicability criteria in §63.2334 at the time you commenced operation.	Y	
63.2338(e)	(e) An affected source is reconstructed if you meet the criteria for reconstruction as defined in §63.2.	Y	
63.2338(f)	(f) An affected source is existing if it is not new or reconstructed.	Y	
63.2342	When do I have to comply with this subpart.	Y	
63.2342(b)	(b) Except as specified in paragraph (e) of this section, if you have an existing affected source, you must comply with this subpart according to the schedule identified in paragraph (b)(1), (2), or (3) of this section, as applicable.	Y	
63.2342(b)(1)	(1) If you have an existing affected source, you must comply with the emission limitations, operating limits, and work practice standards for existing affected sources no later than February 5, 2007, except as provided in paragraphs (b)(2) and (3) of this section.	Y	

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Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(2)	(2) Floating roof storage tanks at existing affected sources must be in compliance with the work practice standards in Table 4 to this subpart, item 1, at all times after the next degassing and cleaning activity or within 10 years after February 3, 2004, whichever occurs first. If the first degassing and cleaning activity occurs during the 3 years following February 3, 2004, the compliance date is February 5, 2007.	Y	
63.2342(b)(3)(i)	(3)(i) If an addition or change other than reconstruction as defined in §63.2 is made to an existing affected facility that causes the total actual annual facility-level organic liquid loading volume to exceed the criteria for control in Table 2 to this subpart, items 7 and 8, the owner or operator must comply with the transfer rack requirements specified in §63.2346(b) immediately; that is, be in compliance the first day of the period following the end of the 3-year period triggering the control criteria.	Y	
63.2342(b)(3)(ii)	(ii) If the owner or operator believes that compliance with the transfer rack emission limits cannot be achieved immediately, as specified in paragraph (b)(3)(i) of this section, the owner or operator may submit a request for a compliance extension, as specified in paragraphs (b)(3)(ii)(A) through (I) of this section. Subject to paragraph (b)(3)(ii)(B) of this section, until an extension of compliance has been granted by the Administrator (or a State with an approved permit program) under this paragraph (b)(3)(ii), the owner or operator of the transfer rack subject to the requirements of this section shall comply with all applicable requirements of this subpart. Advice on requesting an extension of compliance may be obtained from the Administrator (or the State with an approved permit program).	Y	

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Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(A)	<p>(A) <i>Submittal.</i> The owner or operator shall submit a request for a compliance extension to the Administrator (or a State, when the State has an approved 40 CFR part 70 permit program and the source is required to obtain a 40 CFR part 70 permit under that program, or a State, when the State has been delegated the authority to implement and enforce the emission standard for that source) seeking an extension allowing the source up to 1 additional year to comply with the transfer rack standard, if such additional period is necessary for the installation of controls. The owner or operator of the affected source who has requested an extension of compliance under this paragraph (b)(3)(ii)(A) and who is otherwise required to obtain a title V permit shall apply for such permit, or apply to have the source's title V permit revised to incorporate the conditions of the extension of compliance. The conditions of an extension of compliance granted under this paragraph (b)(3)(ii)(A) will be incorporated into the affected source's title V permit according to the provisions of 40 CFR part 70 or Federal title V regulations in this chapter (42 U.S.C. 7661), whichever are applicable.</p>	Y	
63.2342(b)(3)(ii)(B)(1)	<p>(B) <i>When to submit.</i> (1) Any request submitted under paragraph (b)(3)(ii)(A) of this section must be submitted in writing to the appropriate authority no later than 120 days prior to the affected source's compliance date (as specified in paragraph (b)(3)(i) of this section), except as provided for in paragraph (b)(3)(ii)(B)(2) of this section. Nonfrivolous requests submitted under this paragraph (b)(3)(ii)(B)(1) will stay the applicability of the rule as to the emission points in question until such time as the request is granted or denied. A denial will be effective as of the date of denial.</p>	Y	

Table IV – J.2
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Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(B)(2)	(2) An owner or operator may submit a compliance extension request after the date specified in paragraph (b)(3)(ii)(B)(1) of this section provided the need for the compliance extension arose after that date, and before the otherwise applicable compliance date and the need arose due to circumstances beyond reasonable control of the owner or operator. This request must include, in addition to the information required in paragraph (b)(3)(ii)(C) of this section, a statement of the reasons additional time is needed and the date when the owner or operator first learned of the problems. Nonfrivolous requests submitted under this paragraph (b)(3)(ii)(B)(2) will stay the applicability of the rule as to the emission points in question until such time as the request is granted or denied. A denial will be effective as of the original compliance date.	Y	
63.2342(b)(3)(ii)(C)	(C) <i>Information required.</i> The request for a compliance extension under paragraph (b)(3)(ii)(A) of this section shall include the following information:	Y	
63.2342(b)(3)(ii)(C)(1)	(1) The name and address of the owner or operator and the address of the existing source if it differs from the address of the owner or operator;	Y	
63.2342(b)(3)(ii)(C)(2)	(2) The name, address, and telephone number of a contact person for further information;	Y	
63.2342(b)(3)(ii)(C)(3)	(3) An identification of the organic liquid distribution operation and of the specific equipment for which additional compliance time is required;	Y	
63.2342(b)(3)(ii)(C)(4)	(4) A description of the controls to be installed to comply with the standard;	Y	
63.2342(b)(3)(ii)(C)(5)	(5) Justification for the length of time being requested; and	Y	
63.2342(b)(3)(ii)(C)(6)	(6) A compliance schedule, including the date by which each step toward compliance will be reached. At a minimum, the list of dates shall include:	Y	
63.2342(b)(3)(ii)(C)(6)(i)	(i) The date by which on-site construction, installation of emission control equipment, or a process change is planned to be initiated;	Y	
63.2342(b)(3)(ii)(C)(6)(ii)	(ii) The date by which on-site construction, installation of emission control equipment, or a process change is to be completed; and	Y	
63.2342(b)(3)(ii)(C)(6)(iii)	(iii) The date by which final compliance is to be achieved.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(D)	(D) <i>Approval of request for extension of compliance.</i> Based on the information provided in any request made under paragraph (b)(3)(ii)(C) of this section, or other information, the Administrator (or the State with an approved permit program) may grant an extension of compliance with the transfer rack emission standard, as specified in paragraph (b)(3)(ii) of this section. The extension will be in writing and will—	Y	
63.2342(b)(3)(ii)(D)(1)	(1) Identify each affected source covered by the extension;	Y	
63.2342(b)(3)(ii)(D)(2)	(2) Specify the termination date of the extension;	Y	
63.2342(b)(3)(ii)(D)(3)	(3) Specify the dates by which steps toward compliance are to be taken, if appropriate;	Y	
63.2342(b)(3)(ii)(D)(4)	(4) Specify other applicable requirements to which the compliance extension applies (e.g., performance tests);	Y	
63.2342(b)(3)(ii)(D)(5)	(5) Specify the contents of the progress reports to be submitted and the dates by which such reports are to be submitted, if required pursuant to paragraph (b)(3)(ii)(E) of this section.	Y	
63.2342(b)(3)(ii)(D)(6)	(6) Under paragraph (b)(3)(ii) of this section, specify any additional conditions that the Administrator (or the State) deems necessary to assure installation of the necessary controls and protection of the health of persons during the extension period.	Y	
63.2342(b)(3)(ii)(E)	(E) <i>Progress reports.</i> The owner or operator of an existing source that has been granted an extension of compliance under paragraph (b)(3)(ii)(D) of this section may be required to submit to the Administrator (or the State with an approved permit program) progress reports indicating whether the steps toward compliance outlined in the compliance schedule have been reached.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(F)(1)	(F) <i>Notification of approval or intention to deny.</i> (1) The Administrator (or the State with an approved permit program) will notify the owner or operator in writing of approval or intention to deny approval of a request for an extension of compliance within 30 calendar days after receipt of sufficient information to evaluate a request submitted under paragraph (b)(3)(ii) of this section. The Administrator (or the State) will notify the owner or operator in writing of the status of his/her application; that is, whether the application contains sufficient information to make a determination, within 30 calendar days after receipt of the original application and within 30 calendar days after receipt of any supplementary information that is submitted. The 30-day approval or denial period will begin after the owner or operator has been notified in writing that his/her application is complete. Failure by the Administrator to act within 30 calendar days to approve or disapprove a request submitted under paragraph (b)(3)(ii) of this section does not constitute automatic approval of the request.	Y	
63.2342(b)(3)(ii)(F)(2)	(2) When notifying the owner or operator that his/her application is not complete, the Administrator will specify the information needed to complete the application and provide notice of opportunity for the applicant to present, in writing, within 30 calendar days after he/she is notified of the incomplete application, additional information or arguments to the Administrator to enable further action on the application.	Y	
63.2342(b)(3)(ii)(F)(3)	(3) Before denying any request for an extension of compliance, the Administrator (or the State with an approved permit program) will notify the owner or operator in writing of the Administrator's (or the State's) intention to issue the denial, together with:	Y	
63.2342(b)(3)(ii)(F)(3)(i)	(i) Notice of the information and findings on which the intended denial is based; and	Y	
63.2342(b)(3)(ii)(F)(3)(ii)	(ii) Notice of opportunity for the owner or operator to present in writing, within 15 calendar days after he/she is notified of the intended denial, additional information or arguments to the Administrator (or the State) before further action on the request.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(b)(3)(ii)(F)(4)	(4) The Administrator's final determination to deny any request for an extension will be in writing and will set forth the specific grounds on which the denial is based. The final determination will be made within 30 calendar days after presentation of additional information or argument (if the application is complete), or within 30 calendar days after the final date specified for the presentation if no presentation is made.	Y	
63.2342(b)(3)(ii)(G)	(G) <i>Termination of extension of compliance.</i> The Administrator (or the State with an approved permit program) may terminate an extension of compliance at an earlier date than specified if any specification under paragraph (b)(3)(ii)(D)(3) or paragraph (b)(3)(ii)(D)(4) of this section is not met. Upon a determination to terminate, the Administrator will notify, in writing, the owner or operator of the Administrator's determination to terminate, together with:	Y	
63.2342(b)(3)(ii)(G)(1)	(1) Notice of the reason for termination; and	Y	
63.2342(b)(3)(ii)(G)(2)	(2) Notice of opportunity for the owner or operator to present in writing, within 15 calendar days after he/she is notified of the determination to terminate, additional information or arguments to the Administrator before further action on the termination.	Y	
63.2342(b)(3)(ii)(G)(3)	(3) A final determination to terminate an extension of compliance will be in writing and will set forth the specific grounds on which the termination is based. The final determination will be made within 30 calendar days after presentation of additional information or arguments, or within 30 calendar days after the final date specified for the presentation if no presentation is made.	Y	
63.2342(b)(3)(ii)(H)	(H) The granting of an extension under this section shall not abrogate the Administrator's authority under section 114 of the CAA.	Y	
63.2342(b)(3)(ii)(I)	(I) <i>Limitation on use of compliance extension.</i> The owner or operator may request an extension of compliance under the provisions specified in paragraph (b)(3)(ii) of this section only once for each facility.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2342(d)	(d) You must meet the notification requirements in §§63.2343 and 63.2382(a), as applicable, according to the schedules in §63.2382(a) and (b)(1) through (2) and in subpart A of this part. Some of these notifications must be submitted before the compliance dates for the emission limitations, operating limits, and work practice standards in this subpart.	Y	
63.2343	What are my requirements for emission sources not requiring control?	Y	
63.2343	This section establishes the notification, recordkeeping, and reporting requirements for emission sources identified in §63.2338 that do not require control under this subpart (<i>i.e.</i> , under §63.2346(a) through (e)). Such emission sources are not subject to any other notification, recordkeeping, or reporting sections in this subpart, including §63.2350(c), except as indicated in paragraphs (a) through (d) of this section.	Y	
63.2343(b)(1)(i)	(1)(i) You must submit the information in §63.2386(c)(1), (2), (3), and (10)(i) in either the Notification of Compliance Status, according to the schedule specified in Table 12 to this subpart, or in your first Compliance report, according to the schedule specified in §63.2386(b), whichever occurs first.	Y	
63.2343(b)(1)(ii)(A)	(ii)(A) If you submit your first Compliance report before your Notification of Compliance Status, the Notification of Compliance Status must contain the information specified in §63.2386(d)(3) and (4) if any of the changes identified in paragraph (d) of this section have occurred since the filing of the first Compliance report. If none of the changes identified in paragraph (d) of this section have occurred since the filing of the first Compliance report, you do not need to report the information specified in §63.2386(c)(10)(i) when you submit your Notification of Compliance Status.	Y	
63.2343(b)(1)(ii)(B)	(B) If you submit your Notification of Compliance Status before your first Compliance report, your first Compliance report must contain the information specified in §63.2386(d)(3) and (4) if any of the changes specified in paragraph (d) of this section have occurred since the filing of the Notification of Compliance Status.	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2343(b)(1)(iii)	(iii) If you are already submitting a Notification of Compliance Status or a first Compliance report under §63.2386(c), you do not need to submit a separate Notification of Compliance Status or first Compliance report for each storage tank that meets the conditions identified in paragraph (b) of this section (i.e., a single Notification of Compliance Status or first Compliance report should be submitted).	Y	
63.2343(b)(2)(i)	(2)(i) You must submit a subsequent Compliance report according to the schedule in §63.2386(b) whenever any of the events in paragraph (d) of this section occur, as applicable.	Y	
63.2343(b)(2)(ii)	(ii) Your subsequent Compliance reports must contain the information in §63.2386(c)(1), (2), (3) and, as applicable, in §63.2386(d)(3) and (4). If you are already submitting a subsequent Compliance report under §63.2386(d), you do not need to submit a separate subsequent Compliance report for each storage tank that meets the conditions identified in paragraph (b) of this section (i.e., a single subsequent Compliance report should be submitted).	Y	
63.2343(b)(3)	(3) For each storage tank that meets the conditions identified in paragraph (b) of this section, you must keep documentation, including a record of the annual average true vapor pressure of the total Table 1 organic HAP in the stored organic liquid, that verifies the storage tank is not required to be controlled under this subpart. The documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to §63.10(b)(1), including records stored in electronic form in a separate location.	Y	
63.2343(d)	(d) If one or more of the events identified in paragraphs (d)(1) through (4) of this section occur since the filing of the Notification of Compliance Status or the last Compliance report, you must submit a subsequent Compliance report as specified in paragraphs (b)(2) and (c)(2) of this section.	Y	
63.2343(d)(4)	(4) Any of the information required in §63.2386(c)(1), §63.2386(c)(2), or §63.2386(c)(3) has changed.	Y	
63.2346	What emission limitations, operating limits, and work practice standards must I meet?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2346(a)(4)(iv)	(iv) No pressure relief device on the storage tank, on the vapor return line, or on the cargo tank or tank car, shall open during loading or as a result of diurnal temperature changes (breathing losses).	Y	
63.2346(a)(4)(v)	(v) Pressure relief devices must be set to no less than 2.5 pounds per square inch gauge (psig) at all times to prevent breathing losses. Pressure relief devices may be set at values less than 2.5 psig if the owner or operator provides rationale in the notification of compliance status report explaining why the alternative value is sufficient to prevent breathing losses at all times. The owner or operator shall comply with paragraphs (a)(4)(v)(A) through (C) of this section for each relief valve.	Y	
63.2346(a)(4)(v)(A)	(A) The relief valve shall be monitored quarterly using the method described in §63.180(b).	Y	
63.2346(a)(4)(v)(B)	(B) An instrument reading of 500 parts per million by volume (ppmv) or greater defines a leak.	Y	
63.2346(a)(4)(v)(C)	(C) When a leak is detected, it shall be repaired as soon as practicable, but no later than 5 days after it is detected, and the owner or operator shall comply with the recordkeeping requirements of §63.181(d)(1) through (4).	Y	
63.2390	What records must I keep?	Y	
63.2390(e)	(e) An owner or operator who elects to comply with § 63.2346(a)(4) shall keep the records specified in paragraphs (e)(1) through (3) of this section.	Y	
63.2390(e)(2)	(2) A record of the pressure relief vent setting specified in § 63.2346(a)(4)(v).	Y	
40 CFR 63 Subpart FFFF	National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.243	What is the purpose of this subpart?	Y	
63.243	This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for miscellaneous organic chemical manufacturing. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits, operating limits, and work practice standards.	Y	
63.2435	Am I subject to the requirements in this subpart?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2435(a)	(a) You are subject to the requirements in this subpart if you own or operate miscellaneous organic chemical manufacturing process units (MCPU) that are located at, or are part of, a major source of hazardous air pollutants (HAP) emissions as defined in section 112(a) of the Clean Air Act (CAA).	Y	
63.2435(b)	(b) An MCPU includes equipment necessary to operate a miscellaneous organic chemical manufacturing process, as defined in §63.2550, that satisfies all of the conditions specified in paragraphs (b)(1) through (3) of this section. An MCPU also includes any assigned storage tanks and transfer racks; equipment in open systems that is used to convey or store water having the same concentration and flow characteristics as wastewater; and components such as pumps, compressors, agitators, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, connectors, and instrumentation systems that are used to manufacture any material or family of materials described in paragraphs (b)(1)(i) through (v) of this section.	Y	
63.2435(b)(1)	(1) The MCPU produces material or family of materials that is described in paragraph (b)(1)(i), (ii), (iii), (iv), or (v) of this section. (i) An organic chemical(s) classified using the 1987 version of SIC code 282, 283, 284, 285, 286, 287, 289, or 386, except as provided in paragraph (c)(5) of this section. (ii) An organic chemical(s) classified using the 1997 version of NAICS code 325, except as provided in paragraph (c)(5) of this section. (iii) Quaternary ammonium compounds and ammonium sulfate produced with caprolactam. (iv) Hydrazine. (v) Organic solvents classified in any of the SIC or NAICS codes listed in paragraph (b)(1)(i) or (ii) of this section that are recovered using nondedicated solvent recovery operations.	Y	
63.2435(b)(2)	(2) The MCPU processes, uses, or generates any of the organic HAP listed in section 112(b) of the CAA or hydrogen halide and halogen HAP, as defined in §63.2550.	Y	

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63.2435(b)(3)	(3) The MCPU is not an affected source or part of an affected source under another subpart of this part 63, except for process vents from batch operations within a chemical manufacturing process unit (CMPU), as identified in §63.100(j)(4). For this situation, the MCPU is the same as the CMPU as defined in §63.100, and you are subject only to the requirements for batch process vents in this subpart.	Y	
63.2435(c)	(c) The requirements in this subpart do not apply to the operations specified in paragraphs (c)(1) through (7) of this section.	Y	
63.2435(c)(2)	(2) The manufacture of ammonium sulfate as a by-product, if the slurry entering the by-product manufacturing process contains 50 parts per million by weight (ppmw) HAP or less or 10 ppmw benzene or less. You must retain information, data, and analysis to document the HAP concentration in the entering slurry in order to claim this exemption.	Y	
63.2435(d)	(d) If the predominant use of a transfer rack loading arm or storage tank (including storage tanks in series) is associated with a miscellaneous organic chemical manufacturing process, and the loading arm or storage tank is not part of an affected source under a subpart of this part 63, then you must assign the loading arm or storage tank to the MCPU for that miscellaneous organic chemical manufacturing process. If the predominant use cannot be determined, then you may assign the loading arm or storage tank to any MCPU that shares it and is subject to this subpart. If the use varies from year to year, then you must base the determination on the utilization that occurred during the year preceding November 10, 2003 or, if the loading arm or storage tank was not in operation during that year, you must base the use on the expected use for the first 5-year period after startup. You must include the determination in the notification of compliance status report specified in §63.2520(d). You must redetermine the primary use at least once every 5 years, or any time you implement emissions averaging or pollution prevention after the compliance date.	Y	
63.2440	What parts of my plant does this subpart cover?	Y	
63.2440(a)	(a) This subpart applies to each miscellaneous organic chemical manufacturing affected source.	Y	

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63.2440(b)	(b) The miscellaneous organic chemical manufacturing affected source is the facilitywide collection of MCPU and heat exchange systems, wastewater, and waste management units that are associated with manufacturing materials described in §63.2435(b)(1).	Y	
63.2440(c)	(c) A new affected source is described by either paragraph (c)(1) or (2) of this section.	Y	
63.2440(c)(1)	(1) Each affected source defined in paragraph (b) of this section for which you commenced construction or reconstruction after April 4, 2002, and you meet the applicability criteria at the time you commenced construction or reconstruction.	Y	
63.2440(c)(2)	(2) Each dedicated MCPU that has the potential to emit 10 tons per year (tpy) of any one HAP or 25 tpy of combined HAP, and you commenced construction or reconstruction of the MCPU after April 4, 2002. For the purposes of this paragraph, an MCPU is an affected source in the definition of the term “reconstruction” in §63.2.	Y	
63.2440(d)	(d) An MCPU that is also a CMPU under §63.100 is reconstructed for the purposes of this subpart if, and only if, the CMPU meets the requirements for reconstruction in §63.100(l)(2).	Y	
63.2445	When do I have to comply with this subpart?	Y	
63.2445(b)	Except as specified in paragraphs (g) through (i) of this section, if you have an existing source on November 10, 2003, you must comply with the requirements for existing sources in this subpart no later than May 10, 2008	Y	
63.2445(c)	(c) You must meet the notification requirements in §63.2515 according to the dates specified in that section and in subpart A of this part 63. Some of the notifications must be submitted before you are required to comply with the emission limits, operating limits, and work practice standards in this subpart.	Y	
63.2445(g)	(g) All affected sources that commenced construction or reconstruction on or before December 17, 2019, must be in compliance with the requirements listed in paragraphs (g)(1) through (7) of this section upon initial startup or on August 12, 2023, whichever is later. All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with the requirements listed in paragraphs (g)(1) through (7) of this section upon initial startup, or on August 12, 2020 whichever is later.	Y	

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63.2445(g)(1)	(1) The general requirements specified in §63.2450(a)(2), (e)(4) through (7), (g)(6) and (7), (i)(3), (j)(5)(ii) and (6), (k)(1)(ii), (7), and (8), (t), and (u), §63.2520(d)(3), (e)(11) through (13), §63.2525(m) through (o), and §63.2535(m).	Y	
63.2445(g)(4)	(4) For equipment leaks and pressure relief devices, the requirements specified in §63.2480(e) and (f), §63.2520(d)(4) and (e)(14), and §63.2525(q).	Y	
63.2445(g)(7)	(7) The other notification, reports, and records requirements specified in §63.2500(g), §63.2520(e)(5)(ii)(D), §63.2520(e)(5)(iii)(M) and (N), and §63.2525(l) and (u).	Y	
63.2445(h)	(h) All affected sources that commenced construction or reconstruction on or before December 17, 2019, must be in compliance with the requirements for pumps in light liquid service in §63.2480(b)(6) and (c)(10) upon initial startup or on August 12, 2021, whichever is later. All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with the requirements for pumps in light liquid service in §63.2480(b)(6) and (c)(10) upon initial startup, or on August 12, 2020, whichever is later.	Y	
63.2445(i)	(i) All affected sources that commenced construction or reconstruction on or before December 17, 2019, must be in compliance with the ethylene oxide requirements in §§63.2450(h) and (r), 63.2470(b) and (c)(4), 63.2492, 63.2493, 63.2520(d)(5) and (e)(17), and 63.2525(s) and Table 1 to this subpart, item 5, Table 2 to this subpart, item 3, Table 4 to this subpart, item 3, and Table 6 to this subpart, item 3, upon initial startup or on August 12, 2022, whichever is later. All affected sources that commenced construction or reconstruction after December 17, 2019, must be in compliance with the ethylene oxide requirements listed in §§63.2450(h) and (r), 63.2470(b) and (c)(4), 63.2492, 63.2493, 63.2520(d)(5) and (e)(17), and 63.2525(s) and Table 1 to this subpart, item 5, Table 2 to this subpart, item 3, Table 4 to this subpart, item 3, and Table 6 to this subpart, item 3, upon initial startup, or on August 12, 2020, whichever is later.	Y	
63.2450	What are my general requirements for complying with this subpart?	Y	
63.2450(a)	(a) You must comply with paragraphs (a)(1) and (2) of this section.	Y	

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63.2450(a)(1)	(1) Except as specified in paragraph (a)(2) of this section, you must be in compliance with the emission limits and work practice standards in tables 1 through 7 to this subpart at all times, except during periods of startup, shutdown, and malfunction (SSM), and you must meet the requirements specified in §§63.2455 through 63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505), except as specified in paragraphs (b) through (s) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.2515, 63.2520, and 63.2525.	Y	
63.2450(a)(2)	(2) Beginning no later than the compliance dates specified in §63.2445(g), paragraph (a)(1) of this section no longer applies. Instead, you must be in compliance with the emission limits and work practice standards in tables 1 through 7 to this subpart at all times, and you must meet the requirements specified in §§63.2455 through 63.2490 (or the alternative means of compliance in §63.2495, §63.2500, or §63.2505), except as specified in paragraphs (b) through (v) of this section. You must meet the notification, reporting, and recordkeeping requirements specified in §§63.2515, 63.2520, and 63.2525.	Y	
63.2450(e)(6)(v)	(v) For purposes of compliance with this paragraph (e)(6), §§ 63.148(f)(3) of subpart G, and 63.172(j)(3) of subpart H, the phrase “Except for equipment needed for safety purposes such as pressure relief devices, low leg drains, high point bleeds, analyzer vents, and open-ended valves or lines” in § 63.983(a)(3) of subpart SS, and the phrase “Except for pressure relief devices needed for safety purposes, low leg drains, high point bleeds, analyzer vents, and open-ended valves or lines” in § 65.143(a)(3) of this chapter do not apply; instead, the exemptions specified in paragraphs (e)(6)(v)(A) and (B) of this section apply.	Y	
63.2450(e)(6)(v)(A)	(A) Except for pressure relief devices subject to § 63.2480(e)(4), equipment such as low leg drains and equipment subject to the requirements specified in § 63.2480 are not subject to this paragraph (e)(6).		
63.2450(m)	(m) Reporting.	Y	

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63.2450(m)(1)	(1) When §§63.2455 through 63.2490 reference other subparts in this part 63 that use the term “periodic report,” it means “compliance report” for the purposes of this subpart. The compliance report must include the information specified in §63.2520(e), as well as the information specified in referenced subparts.	Y	
63.2450(m)(2)	(2) When there are conflicts between this subpart and referenced subparts for the due dates of reports required by this subpart, reports must be submitted according to the due dates presented in this subpart.	Y	
63.2450(p)	(p) Except as specified in paragraph (t) of this section, opening a safety device, as defined in §63.2550, is allowed at any time conditions require it to avoid unsafe conditions.	Y	
63.2450(u)	(u) General Duty. Beginning no later than the compliance dates specified in §63.2445(g), at all times, you must 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. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.	Y	
63.2480	What requirements must I meet for equipment leaks?	Y	

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Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)	(e) Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of 40 CFR subpart F. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	
63.2480(e)(1)	(1) Operating requirements. Except during a pressure release, operate each pressure relief device in organic HAP gas or vapor service with an instrument reading of less than 500 ppm above background as measured by the method in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F.	Y	
63.2480(e)(2)	(2) Pressure release requirements. For pressure relief devices in organic HAP gas or vapor service, you must comply with the applicable requirements paragraphs (e)(2)(i) through (iii) of this section following a pressure release.	Y	
63.2480(e)(2)(i)	(i) If the pressure relief device does not consist of or include a rupture disk, conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(2)(ii)	(ii) If the pressure relief device includes a rupture disk, either comply with the requirements in paragraph (e)(2)(i) of this section (and do not replace the rupture disk) or install a replacement disk as soon as practicable after a pressure release, but no later than 5 calendar days after the pressure release. You must conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(2)(iii)	(iii) If the pressure relief device consists only of a rupture disk, install a replacement disk as soon as practicable after a pressure release, but no later than 5 calendar days after the pressure release. You must not initiate startup of the equipment served by the rupture disk until the rupture disc is replaced. You must conduct instrument monitoring, as specified in §63.1023(b) of subpart UU, §63.180(c) of subpart H, or §65.104(b) of 40 CFR subpart F, no later than 5 calendar days after the pressure relief device returns to organic HAP gas or vapor service following a pressure release to verify that the pressure relief device is operating with an instrument reading of less than 500 ppm.	Y	
63.2480(e)(3)	(3) Pressure release management. Except as specified in paragraphs (e)(4) and (5) of this section, you must comply with the requirements specified in paragraphs (e)(3)(i) through (v) of this section for all pressure relief devices in organic HAP service.	Y	
63.2480(e)(3)(i)	(i) You must equip each affected pressure relief device with a device(s) or use a monitoring system that is capable of: (A) Identifying the pressure release; (B) Recording the time and duration of each pressure release; and (C) Notifying operators immediately that a pressure release is occurring. The device or monitoring system must be either specific to the pressure relief device itself or must be associated with the process system or piping, sufficient to indicate a pressure release to the atmosphere. Examples of these types of devices and systems include, but are not limited to, a rupture disk indicator, magnetic sensor, motion detector on the pressure relief valve stem, flow monitor, or pressure monitor.	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(3)(ii)	(ii) You must apply at least three redundant prevention measures to each affected pressure relief device and document these measures. Examples of prevention measures include: (A) Flow, temperature, liquid level and pressure indicators with deadman switches, monitors, or automatic actuators. Independent, non-duplicative systems within this category count as separate redundant prevention measures. (B) Documented routine inspection and maintenance programs and/or operator training (maintenance programs and operator training may count as only one redundant prevention measure). (C) Inherently safer designs or safety instrumentation systems. (D) Deluge systems. (E) Staged relief system where the initial pressure relief device (with lower set release pressure) discharges to a flare or other closed vent system and control device.	Y	
63.2480(e)(3)(iii)	(iii) If any affected pressure relief device releases to atmosphere as a result of a pressure release event, you must perform root cause analysis and corrective action analysis according to the requirement in paragraph (e)(6) of this section and implement corrective actions according to the requirements in paragraph (e)(7) of this section. You must also calculate the quantity of organic HAP released during each pressure release event and report this quantity as required in §63.2520(e)(15). Calculations may be based on data from the pressure relief device monitoring alone or in combination with process parameter monitoring data and process knowledge.	Y	
63.2480(e)(3)(iv)	(iv) You must determine the total number of release events that occurred during the calendar year for each affected pressure relief device separately. You must also determine the total number of release events for each pressure relief device for which the root cause analysis concluded that the root cause was a force majeure event, as defined in §63.2550.	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(3)(v)	(v) Except for pressure relief devices described in paragraphs (e)(4) and (5) of this section, the following release events from an affected pressure relief device are a deviation of the pressure release management work practice standards. (A) Any release event for which the root cause of the event was determined to be operator error or poor maintenance. (B) A second release event not including force majeure events from a single pressure relief device in a 3 calendar year period for the same root cause for the same equipment. (C) A third release event not including force majeure events from a single pressure relief device in a 3 calendar year period for any reason.	Y	
63.2480(e)(4)	(4) Pressure relief devices routed to a control device, process, fuel gas system, or drain system. (i) If all releases and potential leaks from a pressure relief device are routed through a closed vent system to a control device, back into the process, to the fuel gas system, or to a drain system, then you are not required to comply with paragraph (e)(1), (2), or (3) of this section.	Y	
63.2480(e)(4)(ii)	(ii) Before the compliance dates specified in §63.2445(g), both the closed vent system and control device (if applicable) referenced in paragraph (e)(4)(i) of this section must meet the applicable requirements specified in §63.982(b) and (c)(2) of subpart SS. Beginning no later than the compliance dates specified in §63.2445(g), both the closed vent system and control device (if applicable) referenced in paragraph (e)(4)(i) of this section must meet the applicable requirements specified in §63.982(c)(2), §63.983, and §63.2450(e)(4) through (6).	Y	
63.2480(e)(4)(iii)	(iii) The drain system (if applicable) referenced in paragraph (e)(4)(i) must meet the applicable requirements specified in §63.2485(e).	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(5)	(5) Pressure relief devices exempted from pressure release management requirements. The following types of pressure relief devices are not subject to the pressure release management requirements in paragraph (e)(3) of this section. (i) Pressure relief devices in heavy liquid service, as defined in §63.1020 of subpart UU or §65.103(f) of 40 CFR subpart F. (ii) Thermal expansion relief valves. (iii) Pressure relief devices on mobile equipment. (iv) Pilot-operated pressure relief devices where the primary release valve is routed through a closed vent system to a control device or back into the process, to the fuel gas system, or to a drain system. (v) Balanced bellows pressure relief devices where the primary release valve is routed through a closed vent system to a control device or back into the process, to the fuel gas system, or to a drain system.	Y	
63.2480(e)(6)	(6) Root cause analysis and corrective action analysis. A root cause analysis and corrective action analysis must be completed as soon as possible, but no later than 45 days after a release event. Special circumstances affecting the number of root cause analyses and/or corrective action analyses are provided in paragraphs (e)(6)(i) through (iii) of this section.	Y	
63.2480(e)(6)(i)	(i) You may conduct a single root cause analysis and corrective action analysis for a single emergency event that causes two or more pressure relief devices installed on the same equipment to release.	Y	
63.2480(e)(6)(ii)	(ii) You may conduct a single root cause analysis and corrective action analysis for a single emergency event that causes two or more pressure relief devices to release, regardless of the equipment served, if the root cause is reasonably expected to be a force majeure event, as defined in §63.2550.	Y	
63.2480(e)(6)(iii)	(iii) Except as provided in paragraphs (e)(6)(i) and (ii) of this section, if more than one pressure relief device has a release during the same time period, an initial root cause analysis must be conducted separately for each pressure relief device that had a release. If the initial root cause analysis indicates that the release events have the same root cause(s), the initially separate root cause analyses may be recorded as a single root cause analysis and a single corrective action analysis may be conducted.	Y	

Table IV – J.2
Source-Specific Applicable Requirements

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2480(e)(7)	(7) Corrective action implementation. You must conduct a root cause analysis and corrective action analysis as specified in paragraphs (e)(3)(iii) and (e)(6) of this section, and you must implement the corrective action(s) identified in the corrective action analysis in accordance with the applicable requirements in paragraphs (e)(7)(i) through (iii) of this section.	Y	
63.2480(e)(7)(i)	(i) All corrective action(s) must be implemented within 45 days of the event for which the root cause and corrective action analyses were required or as soon thereafter as practicable. If you conclude that no corrective action should be implemented, you must record and explain the basis for that conclusion no later than 45 days following the event.	Y	
63.2480(e)(7)(ii)	(ii) For corrective actions that cannot be fully implemented within 45 days following the event for which the root cause and corrective action analyses were required, you must develop an implementation schedule to complete the corrective action(s) as soon as practicable.	Y	
63.2480(e)(7)(iii)	(iii) No later than 45 days following the event for which a root cause and corrective action analyses were required, you must record the corrective action(s) completed to date, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.	Y	
63.2480(e)(8)	(e) Beginning no later than the compliance dates specified in §63.2445(g), except as specified in paragraph (e)(4) of this section, you must comply with the requirements specified in paragraphs (e)(1) and (2) of this section for pressure relief devices, such as relief valves or rupture disks, in organic HAP gas or vapor service instead of the pressure relief device requirements of §63.1030 of subpart UU, §63.165 of subpart H, or §65.111 of this chapter. Except as specified in paragraphs (e)(4) and (5) of this section, you must also comply with the requirements specified in paragraphs (e)(3), (6), (7), and (8) of this section for all pressure relief devices in organic HAP service.	Y	
63.2520	What reports must I submit and when?	Y	
63.2520(d)	(d) Notification of compliance status report. You must submit a notification of compliance status report according to the schedule in paragraph (d)(1) of this section, and the notification of compliance status report must contain the information specified in paragraphs (d)(2) through (5) of this section.	Y	

**Table IV – J.2
Source-Specific Applicable Requirements**

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(d)(4)	(4) For pressure relief devices subject to the pressure release management work practice standards in §63.2480(e)(3), you must also submit the information listed in paragraphs (d)(4)(i) and (ii) of this section in a supplement to the Notification of Compliance Status within 150 days after the first applicable compliance date for pressure relief device monitoring.	Y	

**Table IV – J.2
 Source-Specific Applicable Requirements**

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e)	<p>(e) Compliance report. The compliance report must contain the information specified in paragraphs (e)(1) through (17) of this section. On and after August 12, 2023 or once the reporting template for this subpart has been available on the CEDRI website for 1 year, whichever date is later, you must submit all subsequent reports to the EPA via the CEDRI, which can be accessed through the EPA's CDX (https://cdx.epa.gov/). The EPA will make all the information submitted through CEDRI available to the public without further notice to you. Do not use CEDRI to submit information you claim as CBI. Anything submitted using CEDRI cannot later be claimed to be CBI. You must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/compliance-and-emissions-data-reporting-interface-cedri) for this subpart. The date report templates become available will be listed on the CEDRI website. Unless the Administrator or delegated state agency or other authority has approved a different schedule for submission of reports under §§63.9(i) and 63.10(a) of subpart A, the report must be submitted by the deadline specified in this subpart, regardless of the method in which the report is submitted. Although we do not expect persons to assert a claim of CBI, if you wish to assert a CBI claim, submit a complete report, including information claimed to be CBI, to the EPA. The report must be generated using the appropriate form on the CEDRI website or an alternate electronic file consistent with the extensible markup language (XML) schema listed on the CEDRI website. Submit the file on a compact disc, flash drive, or other commonly used electronic storage medium and clearly mark the medium as CBI. Mail the electronic medium to U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, Sector Policies and Programs Division, CORE CBI Office, U.S. EPA Mailroom (C404-02), Attention: Miscellaneous Organic Chemical Manufacturing Sector Lead, 4930 Old Page Rd., Durham, NC 27703. The same file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described in this paragraph (e). All CBI claims must be asserted at the time of submission.</p>	Y	

**Table IV – J.2
 Source-Specific Applicable Requirements**

Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2520(e) (Cont'd)	Furthermore under CAA section 114(c) emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. You may assert a claim of EPA system outage or force majeure for failure to timely comply with the reporting requirement in this paragraph (e) provided you meet the requirements outlined in paragraph (i) or (j) of this section, as applicable.	Y	
63.2520(e)(15)	(15) Compliance reports for pressure relief devices subject to the requirements §63.2480(e) must include the information specified in paragraphs (e)(15)(i) through (iii) of this section. (i) For pressure relief devices in organic HAP gas or vapor service, pursuant to §63.2480(e)(1), report the instrument readings and dates for all readings of 500 ppmv or greater. (ii) For pressure relief devices in organic HAP gas or vapor service subject to §63.2480(e)(2), report the instrument readings and dates of instrument monitoring conducted. (iii) For pressure relief devices in organic HAP service subject to §63.2480(e)(3), report each pressure release to the atmosphere, including the start date, start time, and duration in minutes of the pressure release and an estimate of the mass quantity in pounds of each organic HAP released; the results of any root cause analysis and corrective action analysis completed during the reporting period, including the corrective actions implemented during the reporting period; and, if applicable, the implementation schedule for planned corrective actions to be implemented subsequent to the reporting period.	Y	

**Table IV – J.3
 Source-Specific Applicable Requirements**

[Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
[Deleted. Source(s) Removed From Service]			

Table IV – J.4
Source-Specific Applicable Requirements
S823 - Heat Exchanger Cleaning Pit North,
S824 - Heat Exchanger Cleaning Pit South

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 1 Limitation	Y	
6-303	Ringelmann Number 2 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 2	Organic Compounds - Miscellaneous Operations (05/04/2022)		
8-2-101	Description, Applicability	Y	
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
8-2-601	Determination of Compliance	Y	
BAAQMD Condition 22227			
Part 1	Visible emission check (Basis: Regulation 2-6-409.2)	Y	
Part 2	Records (Basis: Regulation 2-6-409.2)	Y	

Table IV – J.5
Source-Specific Applicable Requirements
S1543, S1544, S1545, S1546, S1547, S1548
Maintenance Shops Exempt Cold Cleaners

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/2002)		
8-16-114	Exemption, Emulsion or Solution Cleaners exempt from Regulation 8-16	Y	
8-16-118	Limited Exemption, Compounds with Low Volatility	Y	
8-16-118.2	Limited Exemption, Compounds with Low Volatility; Cold Cleaners exempt from 8-16-303.4	Y	
8-16-124	Limited Exemption, Low VOC Cleaning Operations – No 8-16-501 records required for 8-16-303.5.1 Cold Cleaners	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	Cold Cleaner Requirements; General Operating Requirements	Y	
8-16-303.2	Cold Cleaner Requirements; Cold Cleaner Operating Requirements	Y	
8-16-303.3	Cold Cleaner Requirements; General Equipment Requirements	Y	
8-16-303.5	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements	Y	
8-16-303.5.1	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VOC content ≤ 50 g/l	Y	
8-16-303.5.2	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VMS cleaning solution - VMS	Y	
8-16-303.5.3	Cold Cleaner Requirements; Repair and Maintenance Cleaning Requirements; VOC content ≤ 50 g/l in non-VMS portion	Y	
8-16-502	Burden of Proof	Y	

Table IV – J.6
Source-Specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – J.7
Source-Specific Applicable Requirements
 [Deleted. Source(s) Removed From Service]

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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Table IV – J.8
Source-Specific Applicable Requirements
S1526 - No.5 Gas Plant
Abated by A2001 H2S Adsorption Vessels

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart FFFF	NESHAPS - Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2450	What are my general requirements for complying with this subpart?	Y	
63.2450(e)	Requirements for control devices.	Y	
63.2450(e)(2)	Except as specified in paragraph (e)(5) of this section or except when complying with §63.2485, if you reduce organic HAP emissions by venting emissions through a closed-vent system to a flare, you must meet the requirements of paragraph (e)(4) of this section, and the requirements of §63.982(b) and the requirements referenced therein. (Applies to closed vent system from regulated equipment to flare system).	Y	
63.2455	Continuous process vents	Y	
63.2455(a)	Continuous process vents – meet each emission limit in Table 1 to this subpart and meet each applicable requirement specified in paragraphs (b) through (c) of this section and §§63.2492 and 63.2493(a) through (c).	Y	
63.2455(b)	Continuous process vents – For each continuous process vent, you must either designate the vent as a Group 1 continuous process vent or determine the total resource effectiveness (TRE) index value as specified in §63.115(d), except as specified in paragraphs (b)(1) through (3) of this section.	Y	
63.2550	What definitions apply to this subpart?	Y	

Table IV – J.8
Source-Specific Applicable Requirements
S1526 - No.5 Gas Plant
Abated by A2001 H2S Adsorption Vessels

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2550(i) (continuous process vent)	Continuous process vent means the point of discharge to the atmosphere (or the point of entry into a control device, if any) of a gas stream if the gas stream has the characteristics specified in §63.107(b) through (h), or meets the criteria specified in §63.107(i), (Vent stream from regulated equipment is routed to either fuel gas system or to flare and recovered via flare gas recovery into fuel gas system during normal operations, exempting it from definition of continuous process vent per §63.107(h)(3) during normal operations. When routed to flare and flare gas recovery system is not operating, then vapors from regulated equipment are considered a continuous process vent.)	Y	
BAAQMD Condition 27585			
Part 1	Calendar day and rolling 12 consecutive months production limits (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	Calendar day processing limit (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Abatement requirement for deethanizer and depropanizer (Basis: Regulation 2-5 Toxics)	Y	
Part 4	Ensure vapors from all vent streams are recovered and sent to the fuel gas system (Basis: Table 1 of 40 CFR Part 63, Subpart FFFF)	Y	
Part 5	Recordkeeping (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Section K Abatement

**Table IV – K.1
 Source-Specific Applicable Requirements**

**A39 API/DNF Thermal Oxidizer
 Abates S819 and S1026**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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 8 Rule 8	Organic Compounds – Wastewater Collection and Separation Systems (11/03/2021)		
8-8-101	Description, applicability	N	
8-8-302	Wastewater separators larger than or equal to 18.9 liters per second (300 gal/min) (S-819 - OWS)	Y	
8-8-302.3	Vapor-tight fixed cover with organic compound vapor recovery with collection and destruction of at least 95% by weight (S-819 - OWS)	N	
8-8-302.6	Inspect Roof seals, fixed covers, access doors, and other openings semiannually to verify vapor tight (S-819 - OWS)	N	
8-8-307	Air flotation unit greater than 25.2 liters per second (400 gal/min) (S-819 – DNF System)	Y	
8-8-307.2	Organic vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight. (S-819 – DNF System)	N	

Table IV – K.1
Source-Specific Applicable Requirements

A39 API/DNF Thermal Oxidizer
Abates S819 and S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 8 Rule 8	Organic Compounds - Wastewater (Oil-Water) Separators (08/29/1994)		
8-8-101	Description, applicability	Y	
8-8-302.3	Vapor-tight fixed cover with organic compound vapor recovery with collection and destruction of at least 95% by weight. (S-819 OWS)	Y	
8-8-307.2	Organic vapor recovery system with a combined collection and destruction efficiency of at least 70% by weight. (S-819 DNF System)	Y	
40 CFR 63 Subpart G	NESHAPS - SOCMII for Process Vents, Storage Vessels, Transfer Operations, and Wastewater (11/19/2020) (applicable as directed by 63.2485(a) and Table 7 to 40 CFR 63 Subpart FFFF)	Y	
63.132(a)	Existing sources	Y	
63.132(a)(1)	(1) Determine wastewater streams to be controlled for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(a)(2)	(2) Requirements for Group 1 wastewater streams. For wastewater streams that are Group 1 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with paragraphs (a)(2)(i) through (a)(2)(iv) of this section.	Y	
63.132(a)(3)	(3) Requirements for Group 2 wastewater streams. For wastewater streams that are Group 2 for compounds listed in Tables 8 and 9 of Subpart FFFF, comply with the applicable recordkeeping and reporting requirements specified in §§63.146(b)(1) and 63.147(b)(8).	Y	
63.132(c)	(c) How to determine Group 1 or Group 2 status for compounds listed in Tables 8 and 9 of Subpart FFFF.	Y	
63.132(c)(3)	(3) The owner or operator of a Group 2 wastewater shall re-determine group status for each Group 2 stream, as necessary, to determine whether the stream is Group 1 or Group 2 whenever process changes are made that could reasonably be expected to change the stream to a Group 1 stream. Examples of process changes include, but are not limited to, changes in production capacity, production rate, feedstock type, or whenever there is a replacement, removal, or addition of recovery or control equipment. For purposes of this paragraph (c)(3), process changes do not include: Process upsets; unintentional, temporary process changes; and changes that are within the range on which the original determination was based.	Y	
63.132(d)	(d) How to determine Group 1 or Group 2 status for Table 8 compounds.	Y	
63.132(e)	(e) How to designate a Group 1 wastewater stream.	Y	

Table IV – K.1
Source-Specific Applicable Requirements

A39 API/DNF Thermal Oxidizer
Abates S819 and S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.132(f)	(f) Owners or operators of sources subject to this subpart shall not discard liquid or solid organic materials with a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP (as determined by analysis of the stream composition, engineering calculations, or process knowledge, according to the provisions of §63.144(b) of this subpart) from a chemical manufacturing process unit to water or wastewater, unless the receiving stream is managed and treated as a Group 1 wastewater stream. This prohibition does not apply to materials from the activities listed in paragraphs (f)(1) through (f)(4) of this section.	Y	
40 CFR 63 Subpart FFFF	NESHAPS: Miscellaneous Organic Chemical Manufacturing (11/19/2020)		
63.2485(a)	General. You must meet each requirement in Table 7 to this subpart that applies to your wastewater streams and liquid streams in open systems within an MCPU, except as specified in paragraphs (b) through (q) of this section.	Y	
63.2485(b)	Wastewater HAP. Where §63.105 and §§63.132 through 63.148 refer to compounds in table 9 of subpart G of this part 63, the compounds in tables 8 and 9 to this subpart apply for the purposes of this subpart.	Y	
63.2485(c)	(c) Group 1 wastewater. Section 63.132(c)(1) (i) and (ii) do not apply. For the purposes of this subpart, a process wastewater stream is Group 1 for compounds in tables 8 and 9 to this subpart if any of the conditions specified in paragraphs (c) (1) through (3) of this section are met.	Y	
63.2485(h)	(h) Alternative test methods.	Y	
63.2485(j)	(j) You must determine the annual average concentration and annual average flowrate for wastewater streams for each MCPU. The procedures for flexible operation units specified in §63.144 (b) and (c) do not apply for the purposes of this subpart.	Y	
63.2485(m)	(m) When §63.132(f) refers to “a concentration of greater than 10,000 ppmw of table 9 compounds,” the phrase “a concentration of greater than 30,000 ppmw of total partially soluble HAP (PSHAP) and soluble HAP (SHAP) or greater than 10,000 ppmw of PSHAP” shall apply for the purposes of this subpart.	Y	

Table IV – K.1
Source-Specific Applicable Requirements

A39 API/DNF Thermal Oxidizer
Abates S819 and S1026

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.2485(o)	(o) Compliance records. Except as specified in paragraph (p) of this section, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d).	Y	
63.2485(p)	(p) Compliance records after date of compliance. Beginning no later than the compliance dates specified in §63.2445(g), paragraph (o) of this section no longer applies. Instead, for each CPMS used to monitor a nonflare control device for wastewater emissions, you must keep records as specified in §63.998(c)(1) in addition to the records required in §63.147(d), except that the provisions of §63.998(c)(1)(ii)(D), (E), (F), and (G) do not apply.	Y	
63.2485(q)	(q) Startup, shutdown, and malfunction referenced provisions. Beginning no later than the compliance dates specified in §63.2445(g), the referenced provisions specified in paragraphs (q)(1) through (5) of this section do not apply when demonstrating compliance with this section.	Y	
BAAQMD Condition 7406			
Part A1	S-819 Enclosure requirement and abatement requirement (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B1	Requirement to cover and abate S-819 DNF outlet channel to S-1026 and A-39 (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B2	Requirement for S-1026 air stripper compressor interlock with air sweep fans and A39 thermal incinerator (Basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)	Y	
Part B5.A	A39 Non-methane hydrocarbon emissions shall not exceed 10 ppm on a rolling one hour average basis (Basis: BACT, offsets, cumulative increase)	Y	
Part B7	A39 H2S emissions shall not exceed 1 ppm. (Basis: toxics)	Y	
Part B10	A39 Minimum temperature (Basis: cumulative increase, offsets, toxics)	Y	
Part B11	A39 Install, maintain, and operate continuous temperature monitor/recorder (Basis: BACT, offsets, cumulative increase)	Y	
Part B12	Recordkeeping (Basis: cumulative increase, BACT, offsets, toxics)	Y	

**Table IV – K.2
 Source-Specific Applicable Requirements**

**A40 Tract 6 Electric Thermal Oxidizer,
 A42 Hydrocracker Electric Thermal Oxidizer,
 A43 Tract 3 Electric Thermal Oxidizer Pump Seal Thermal Oxidizers**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter; General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (09/04/1998)		
6-301	Ringelmann Number 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 12 Rule 11	Flare Monitoring at Refineries (11/03/2021)		
12-11-113	Exemption, Pumps	N	
BAAQMD Regulation 12 Rule 12	Flares at Refineries (11/03/2021)		
12-12-113	Exemption, Pumps	N	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (01/20/1982; Approved by EPA on 05/03/1984)	Y	

Table IV – K.2
Source-Specific Applicable Requirements

A40 Tract 6 Electric Thermal Oxidizer,
A42 Hydrocracker Electric Thermal Oxidizer,
A43 Tract 3 Electric Thermal Oxidizer Pump Seal Thermal Oxidizers

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 11609	Section A applies to A40 only Section C applies to A42 only Section D applies to A43 only		
Part A1	A-40 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F	Y	
Part A2	A-40 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (Basis: cumulative increase, toxics).	Y	
Part A4	A-40 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-40. Total number of pumps connected to A-40 not to exceed 20.	Y	
Part A5	A-40 only: Shall record date and time pump seal vapors are abated by A-40. Monitor twice daily and record operating temperature of A-40.	Y	
Part C1	A-42 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F.	Y	
Part C2	A-42 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (Basis: cumulative increase, offsets).	Y	
Part C4	A-42 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-42. Total number of pumps connected to A-42 not to exceed 20.	Y	
Part C5	A-42 only: Shall record date and time pump seal vapors are abated by A-42. Monitor twice daily and record operating temperature of A-42.	Y	
Part D1	A-43 only: Minimum VOC destruction efficiency of 95% by weight, minimum 0.5 second residence time, and minimum operating temperature of 1400F.	Y	
Part D2	A-43 only: Shall have a continuous temperature monitor. Each pump duct shall have a flow indicator (Basis: cumulative increase, offsets).	Y	
Part D4	A-43 only: Shall provide BAAQMD with 7 days notice of connecting/removing a pump to A-43. Total number of pumps connected to A-43 not to exceed 20.	Y	
Part D5	A-43 only: Shall record date and time pump seal vapors are abated by A-43. Monitor twice daily and record operating temperature of A-43.	Y	

Table IV – K.3
Source-Specific Applicable Requirements

A1584 Trailer Mounted Combustor
Abates S126, S127, S134, S137, S323, S603, S613,
S656, S658, S699, S714, S819, S1025, S1560

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter – General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-311.1	Total Suspended Particulate Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
BAAQMD Condition 27543			
Part 1	Abatement and flow rate requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 2	VOC destruction efficiency requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 4	Minimum operating temperature requirement. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	Shall equip with a continuous temperature measuring and recording device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 11	Prohibition of tank degassing activities. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Table IV – K.4
Source-Specific Applicable Requirements
A2000 Sour Water Stripper Off-Gas Thermal Oxidizer,
Abates S1600 via A2002

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	Particulate Matter – General Requirements (08/01/2018)		
6-1-301	Ringelmann Number 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310.1	Total Suspended Particulate (TSP) Concentration Limits	N	
6-1-310.3	TSP Concentration Limit (corrections for standard conditions and oxygen concentration)	N	
6-1-311.1	Total Suspended Particulate (TSP) Weight Limits	N	
6-1-401	Appearance of Emissions	N	
6-1-601	Applicability of Test Methods	N	
BAAQMD Condition 27591			
Part 1	Vapor flow rate shall not exceed 140 dscfm. (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)	Y	
Part 2	A2000 VOC destruction efficiency requirements. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 3	Minimum ammonia destruction efficiency of 99.9%. (Basis: Regulation 2-5 Toxics)		
Part 4	Operate A2000 at temperature $\geq 2,100^{\circ}\text{F}$ at the reduction furnace. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 5	Equip A2000 with temperature measuring device. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 6	Report non-compliance with Part 4. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 7	Provisions for an “Allowable Temperature Excursion” (Basis: Regulation 2-1-403)	Y	
Part 8	Recordkeeping for each “Allowable Temperature Excursion” that exceeds 20°F and 15 minutes in duration. (Basis: Regulation 2-1-403)	Y	
Part 9	Initial testing within 60 days of startup: flow, VOC, concentration/destruction efficiency, ammonia destruction efficiency, and temperature. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Table IV – K.4
Source-Specific Applicable Requirements
A2000 Sour Water Stripper Off-Gas Thermal Oxidizer,
Abates S1600 via A2002

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Obtain approval for test procedures before conducting tests. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 12	NOx, CO, and SO2 emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 13	SO2, NOx, CO, POC, PM10, PM2.5, sulfuric acid mist, H2S, and NH3 consecutive 12 month period emission limits. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 14	Initial source test and repeat source test once every 2 years. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 15	Recordkeeping requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)	Y	

Table IV – K.5
Source-Specific Applicable Requirements
A2001 H2S Adsorption Vessels #1 (No. 5 Gas Plant)
Abates S1526

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 27592			
Part 1	Abatement and flow requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 2	H2S monitoring requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 3	Alternative monitoring. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-1-403 Permit Conditions)	Y	
Part 4	H2S adsorbent change out requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	N	
Part 5	H2S adsorbent change out requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	N	
Part 6	Recordkeeping. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Table IV – K.6
Source-Specific Applicable Requirements
A2002 H2S Adsorption Vessels #2 (Sour Water Stripper),
Abates S1600

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 27593			
Part 1	S-1600 shall be abated by A2002 and from A-2002 to A2000 at all times. Vapor flow rate shall not exceed 140 dscfm. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 2	H2S monitoring requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 3	Monitoring requirements. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-1-403 Permit Conditions)	Y	
Part 4	Change out second to last vessel upon breakthrough. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 5	Change out last vessel upon breakthrough. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)	Y	
Part 6	Recordkeeping. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	
Part 8	Report non-compliance. (Basis: Regulation 2-2-208 Cumulative Increase)	Y	

Section L Remediation

**Table IV – L.1
 Source-Specific Applicable Requirements**

S1452 - Groundwater Hydrocarbon Recovery System with 47 Oil/Water Wells, And Associated Pumps (39 light hydrocarbon and 8 heavy hydrocarbon pumps), Valves, And Flanges

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63 Subpart GGGGG	NESHAPS for Source Categories - Site Remediation (11/22/2022)		
63.7880	Purpose: Establish emission limitations and work practice standards for HAPs from site remediation activities and requirements for initial and continuous compliance demonstrations	Y	
63.7882	Applicability: Affected sources	Y	
63.7882(a)	Applicability: Affected sources; new, reconstructed, or existing sources	Y	
63.7882(a)(3)	Affected source: Remediation material management units – (i.e., tank, surface impoundment, container, OWS, or transfer system to manage remediation material). Tanks or containers with vents are process vents	Y	
63.7882(a)(3)	Affected Source: Equipment leaks – (pumps, valves, etc used to manage remediation materials and meeting both of the following conditions)	Y	
63.7882(a)(3)(i)	Equipment leaks in components containing or contacting remediation material with concentration of HAP \geq 10% by weight	Y	
63.7882(a)(3)(ii)	Equipment leaks in components operated more than 300 hours in calendar year	Y	
63.7882(b)	Affected sources: Existing sources commenced construction or reconstruction before July 30, 2002	Y	
63.7882(c)	Affected sources: New sources commenced construction or reconstruction on or after July 30, 2002	Y	
63.7883	Compliance Schedule	Y	
63.7883(a)	Compliance Schedule: Existing sources	Y	
63.7883(b)	Compliance Schedule: New sources (non-radioactive)	Y	
63.7883(e)	Compliance Schedule: Notification requirements	Y	
63.7884	General Standards	Y	
63.7884(a)	General Standards – comply with 63.7885 through 63.7955 as they apply to the affected sources	Y	
63.7886	Remediation Material Management Units – General Standards	Y	
63.7886(a)	Select option and meet requirements of option selected	Y	
63.7886(b)	Options	Y	
63.7886(b)(1)	Option 1: Control HAP emissions by specific requirements for remediation management unit type	Y	

Table IV – L.1
Source-Specific Applicable Requirements

S1452 - Groundwater Hydrocarbon Recovery System with 47 Oil/Water Wells, And Associated Pumps (39 light hydrocarbon and 8 heavy hydrocarbon pumps), Valves, And Flanges

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7886(b)(1)(v)	Option 1: Control HAP emissions for transfer system	Y	
63.7886(b)(2)	Option 2: Determine that average VOHAP concentration of remediation material is less than 500 ppmw.	Y	
63.7886(b)(3)	Option 3: For remediation management units subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the unit is exempt from the other subpart	Y	
63.7886(d)	Remediation Material Management Units – General Standards: Exemption for management units if total annual HAP is less than 1 Mg/yr	Y	
63.7886(d)(1)	Designate exempt units and submit written notification	Y	
63.7886(d)(2)	Prepare initial determination of total annual HAP in exempt units and maintain documentation	Y	
63.7887	Equipment Leaks – General Requirements	Y	
63.7887(a)	Option 1: Implement LDAR as specified in 63.7920 through 63.7922	Y	
63.7887(b)	Option 2: For equipment leaks subject to another 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless the equipment leak is exempt from the other subpart	Y	
63.7915	Transfer system emission limitations and work practice standards	Y	
63.7915(a)	Transfer system - comply with requirements for specific system	Y	
63.7915(c)	Transfer system – requirements for systems other than individual drain systems	Y	
63.7915(c)(2)	Continuous hard piping system – joints or seams must be permanently or semi-permanently sealed (welded or bolted/gasketed)	Y	
63.7916	Transfer system – Initial Compliance	Y	
63.7916(a)	Transfer system – Initial Compliance - comply with requirements for specific system	Y	
63.7916(d)	Transfer system – continuous hard piping – initial compliance by certifying (d)(1) and (d)(2)	Y	
63.7916(d)(1)	Certify installation of hard piped transfer system and have records	Y	
63.7916(d)(2)	Certify initial inspection of entire hard piped transfer system and have records	Y	
63.7917	Transfer Systems – Inspection and Monitoring Requirements	Y	
63.7917(c)	Transfer system – continuous hard piping – annual inspection of unburied portion for leaks and defects.	Y	

Table IV – L.1
Source-Specific Applicable Requirements

S1452 - Groundwater Hydrocarbon Recovery System with 47 Oil/Water Wells, And Associated Pumps (39 light hydrocarbon and 8 heavy hydrocarbon pumps), Valves, And Flanges

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7917(e)	Transfer system – continuous hard piping – repair of defects	Y	
63.7917(e)(1)	First attempt at repairs	Y	
63.7917(e)(2)	Delay of repair	Y	
63.7917(e)(3)	Records – delay of repair	Y	
63.7918	Transfer system – Continuous Compliance	Y	
63.7918(a)	Transfer system – Continuous Compliance - comply with requirements for specific system	Y	
63.7918(d)	Transfer system – continuous hard piping – continuous compliance	Y	
63.7918(d)(1)	Operation and maintenance	Y	
63.7918(d)(2)	Annual inspection	Y	
63.7918(d)(3)	Repair of defects	Y	
63.7918(d)(4)	Records of compliance	Y	
63.7935	General Compliance Requirements	Y	
63.7935(a)	Comply at all times except during periods of startup, shutdown, and malfunction	Y	
63.7935(b)	Comply with 63.6(e)(1)(i)	Y	
63.7935(c)	Develop a written SSMP per 63.6(e)(3)	Y	
63.7935(e)	Report each non-compliance (deviation) including startup, shutdown, and malfunction	Y	
63.7935(f)	Demonstration of compliance with SSMP for deviations during startup, shutdown, and malfunction	Y	
63.7936	Requirements to transfer remediation material off-site to another facility	Y	
63.7937	General Standards – Initial Compliance	Y	
63.7938	General Standards – Continuous Compliance	Y	
63.7940	Initial Compliance Demonstrations – Compliance Schedule	Y	
63.7940(b)	Requirements for existing sources without performance tests or design evaluations	Y	
63.7940(c)	Requirements for new sources	Y	
63.7941	Initial Compliance Demonstration - Methods	Y	
63.7941(a)	Initial Compliance Demonstration – comply with applicable methods for affected sources	Y	

Table IV – L.1
Source-Specific Applicable Requirements

S1452 - Groundwater Hydrocarbon Recovery System with 47 Oil/Water Wells, And Associated Pumps (39 light hydrocarbon and 8 heavy hydrocarbon pumps), Valves, And Flanges

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.7941(g)	Requirements for visual inspections of affected sources	Y	
63.7943	Method to determine average VOHAP concentration in remediation material	Y	
63.7944	Method to determine maximum HAP vapor pressure of remediation material	Y	
63.7950	Notification, Reports and Records	Y	
63.7950(a)	Submit notifications required in 63 Subpart A as required	Y	
63.7950(b)	Initial Notification compliance date (past due)	Y	
63.7951	Reports	Y	
63.7951(a)	Reports: Compliance report due dates	Y	
63.7951(b)	Reports: Compliance report contents	Y	
63.7951(c)	Reports: Immediate SSM report	Y	
63.7951(d)	Reports: Title V deviation reporting requirements	Y	
63.7952	Recordkeeping	Y	
63.7952(a)	Records required	Y	
63.7952(a)(1)	Records required: Copies of notifications and reports	Y	
63.7952(a)(2)	Records required: SSM records	Y	
63.7952(a)(4)	Records required: Applicability determinations for exemptions	Y	
63.7952(c)	Records: Continuous compliance demonstration records for all applicable requirements	Y	
63.7953	Record retention	Y	
63.7953(a)	Record retention: Format	Y	
63.7953(b)	Record retention: 5 years	Y	
63.7953(c)	Record retention: 2 years on site; 3 years off-site	Y	
63.7953(d)	Record retention: Offsite for completed remediations or when no longer the owner	Y	
63.7955	Applicability of General Provisions 40 CFR 63 Subpart A	Y	
63.7956	Implementation and Enforcement	Y	
63.7957	Definitions	Y	
BAAQMD Condition 9875			

Table IV – L.1
Source-Specific Applicable Requirements

S1452 - Groundwater Hydrocarbon Recovery System with 47 Oil/Water Wells, And Associated Pumps (39 light hydrocarbon and 8 heavy hydrocarbon pumps), Valves, And Flanges

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Throughput limit of 5,000,000 bbl/yr (Basis: cumulative increase, offsets)	Y	

Section M Facility Emissions Cap Requirements

**Table IV – M.1
 Source-Specific Applicable Requirements**

**S55 - Amorco Wharf Terminal,
 S323 - Storage Tank A-323, S850 - No 3 HDS Unit,
 S854 - East Air Flare, S919 - No. 19 Furnace, S920 - No. 20 Furnace,
 S926 - No. 26 Furnace, S927 - No. 27 Furnace, S928 - No. 28 Furnace,
 S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace,
 S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace,
 S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace,
 S952 - Internal Combustion Engine, S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine, S973 - No. 55 Furnace**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 8077			
Part A2A	Applies to S973 only. See Table IV-C.4.3.	Y	
Part A2B	Applies to S973 only. See Table IV-C.4.3.	Y	
Part A16	Source Test notification requirements (Basis: MOP Volume IV)	Y	
Part A17	Requirements of Mitigated Negative Declaration adopted 12/16/1991 considered permit conditions (Basis: cumulative increase, offsets)	Y	
Part B1	Definitions	Y	
Part B2	Emissions – see Table A of Appendix A basis: cumulative increase, bubble, BACT)	Y	
Part B2A	Emissions Cap – annual limits	Y	
Part B2B	Emissions Cap – monthly limits	Y	
Part B2C	Emissions Cap – monthly compensatory emission limits	Y	
Part B2D	Emissions Cap – total accumulated emissions in calendar year limit	Y	
Part B2E	Emissions Cap – Exceedances of B2A and B2B	Y	
Part B3	Emission Reductions when limits in B2 are exceeded	Y	
Part B3A	Emission Reductions for exceedances of annual emission limits (B2A) (Basis: cumulative increase, bubble)	Y	
Part B3B	Emission Reductions for exceedances of monthly maximum emission limits (B2B) (Basis: cumulative increase, bubble)	Y	
Part B3C	Emission Reductions for exceedances of monthly compensatory emission limits (B2C) (Basis: cumulative increase, bubble)	Y	
Part B3D	Emission Reductions for exceedances of B2D cumulative emissions limits (Basis: cumulative increase, bubble)	Y	
Part B3E	Emission Reductions - Hydrocarbon offsets for NOx (Basis: cumulative increase, bubble)	Y	

Table IV – M.1
Source-Specific Applicable Requirements

**S55 - Amorco Wharf Terminal,
 S323 - Storage Tank A-323, S850 - No 3 HDS Unit,
 S854 - East Air Flare, S919 - No. 19 Furnace, S920 - No. 20 Furnace,
 S926 - No. 26 Furnace, S927 - No. 27 Furnace, S928 - No. 28 Furnace,
 S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace,
 S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace,
 S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace,
 S952 - Internal Combustion Engine, S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine, S973 - No. 55 Furnace**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part B3F	Emission Reductions - Requirements for offsets for required abatement equipment (Basis: cumulative increase, bubble, offsets)	Y	
Part B4	Monitoring	Y	
Part B4A	Applies to S973 only. See Table IV-C.4.3.	Y	
Part B4B	Applies to S934, S935, S973 only. See Tables IV-C.4.2 and IV-C.4.3.	Y	
Part B4C	Applies to S920, S928 through S933 only. See Table IV-C.4.2.	Y	
Part B4D	Monitoring required in Appendix D	Y	
Part B5	Reporting and Recordkeeping (Basis: cumulative increase, offsets)	Y	
Part B5A	Recordkeeping and retention (Basis: cumulative increase, offsets)	Y	
Part B5B	Monthly report [EMIT Report] (Basis: cumulative increase, offsets)	Y	
Part B5C	Monthly audits (Basis: cumulative increase, offsets)	Y	
Part B7	Applies to S919, S934, S935, and S973 only. See Tables IV-C.4.2 and IV-C.4.3.	Y	
Part B8	Hydrocarbon Controls (Basis: cumulative increase, offsets, BACT)	Y	
Part B10	Access (Basis: cumulative increase, offsets)	Y	
Part B11	Enforcement (Basis: cumulative increase, offsets)	Y	
Part B12	Miscellaneous (Basis: cumulative increase, offsets)	Y	
Part B13	Severability (Basis: cumulative increase, offsets)	Y	
Part C3	Applies to S928 through S933 only. See Table IV-C.4.2.	Y	
Part C4	Applies to S934 and S935 only. See Table IV-C.4.2.	Y	

V SCHEDULE OF COMPLIANCE

A. Standard 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 677

S937 Hydrogen Plant Heater

Administratively Revised via Application 19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

1. Permittee/Owner/Operator shall ensure that the mass emissions of nitrogen oxides (NO_x), calculated as NO₂, from furnace, S-937 do not exceed 1430 lb/stream day or 1089 lb/calendar day. (basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)
2. Permittee/Owner/Operator shall install, calibrate, maintain and operate nitrogen oxides and oxygen analyzers in accordance with the District's Manual of Procedures.

(basis: cumulative increase, Bubble Condition 4357/8077 via Application 19647)

3. Deleted. (Recordkeeping requirements of Regulation 9-10-504 are more stringent.)

Condition 1910

S1007 Hydrocracker Unit 2nd Stage

S1008 Hydrocracker Unit 1st Stage

Permit Condition 1910

Application #548

Hydrocracker Expansion Project Permit Conditions
(S-1007) And (S-1008)

Application 15944 (May 2007): S-1007 Isocracker Unit: IIR Compressor Leak Control Measure to install a shroud/clamp to capture compressor leaks and route gases to the flare gas recovery header. Add inspection requirements for the shroud/clamp.

Application 16850 (February 2008): S-1007 Isocracker Unit: HIR Compressor Leak Control Measure to install a shroud/clamp to capture compressor leaks and route gases to the flare gas recovery header. Add inspection requirements for the shroud/clamp.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010). Deleted Parts 3 and 4. Leaks permanently repaired.

1. Deleted. (No pressure relief valves associated with this project vent to atmosphere)

2. Deleted. (Completed. All pumps and compressors have double mechanical seals with a barrier fluid, or equivalent, and all new compressors must meet applicable New Source Performance Standards.)
3. Deleted (Completed. IIR Compressor leak permanently repaired and shroud/clamp removed during 2Q09 Hydrocracker shutdown).
4. Deleted (Completed. HIR Compressor leak permanently repaired and shroud/clamp removed during 2Q09 Hydrocracker shutdown).

Condition 3996

S699 Tank A-699
Application # 2253 For Source # 699
Administratively Deleted by Application 21711 (May 2010)

1. Deleted. (Gas tight requirements are redundant with Regulation 8-5-307.)
2. Completed. (Pressure Vacuum Valve set points are +/- 1.0" H2O).
3. Completed. (Gas discharge regulator set point is +0.5" H2O).
4. Completed. (Gas supply regulator set point is -0.5" H2O).

Condition 6740

Application 6167 (August 1992),
Amended by application 12404 (April 2005) to correct permit condition to explicitly allow storage of ethyl alcohol, to increase throughput to 400,000 bbl/year, and to eliminate repetition of District Rules in condition.
Application 11091 (October, 2005): increase ethyl alcohol throughput from 243,000 bbl/yr to 400,000 bbl/yr, eliminate storage of gasoline.
Application 21023 (January 2010): increase ethanol throughput from 400,000 bbl/yr to 1,200,000 bbl/yr.
S612 Tank A-612; Internal Floating Roof, Capacity: 420K Gallons, Storing: Ethyl Alcohol
Permit conditions for S-612, internal floating roof storage tank.

1. Deleted by Application 12404 (Covered by Regulation 8, Rule 5).
2. Deleted by Application 12404 (Notification of seal installation provided).
3. Owner/Operator shall ensure that the total liquid throughput for storage tank S-612 does not exceed 1,200,000 barrels during any consecutive 12 month period. (basis: cumulative increase)
4. Owner/Operator shall ensure that only fuel grade ethyl alcohol with a true vapor pressure less than or equal to 7.1 psia is stored in tank S-612. If an alternative material is to be stored in S-612, the owner/operator shall first apply for and receive from the District written approval for the storage of the alternative material(s). (basis: cumulative increase)

5. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-612 shall maintain the following records in a District approved log:

a. The types of material stored and the dates that the materials were stored.

b. The total throughput of each material stored, summarized on a monthly basis. Permittee/Owner/Operator shall ensure that these records are kept on site and made available for District inspection for a period of 5 years from the date that the last record was made.

(basis: cumulative increase, Regulation 8-5-501)

Condition 7406

S819 API Oil-Water Separator

S1026 DNF Air Stripper

Application 4990 (1990)

Modified by Application #8592 (1992)

Modified by Application 20143 (May 2009), Incorporation of Condition 4587 and the removal of A38.

API Separator/DNF Unit Abatement Project Permit Conditions

Conditions for Application #8592:

A1. During all times of operation of Source S-819, Permittee/Owner/Operator shall ensure that the API oil/water separator, influent head channel and wet oil pit, and dissolved nitrogen flotation (DNF) unit are all be enclosed and vented to the headspace of the air stripper S-1026 and abated by the thermal incinerator A-39, except as indicated below. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

A2. Permittee/Owner/Operator shall ensure that in the event that thermal oxidizer A-39 is not available as a control device for S-819, then S-819 shall be abated by the refinery vapor recovery system A-14. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

A3. Deleted. (Redundant with Regulation 8-8-305.1)

A4. Deleted. (Redundant with the requirements of District Regulation 8, Rule 8.)

Modified Conditions for Application #4990 (DNF Effluent Channel Air Stripper System):

B1. Permittee/Owner/Operator shall ensure that at all times, except for periods of ongoing inspection, maintenance, or wastewater sampling, the DNF outlet channel shall be covered and vented to the DNF air stripping system S-1026 and abated by the thermal incinerator A-39 operating properly as designed. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

B2. Permittee/Owner/Operator shall ensure that the DNF air stripping compressor does not operate unless the air sweep fans and the thermal incinerator A-39 are operating properly. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)

- B3. Permittee/Owner/Operator shall ensure that a differential pressure controller varies the air sweep fan speed, relative to the air stripping rate, to control the air space below the DNF covers to a pressure less than atmospheric pressure. (basis: Regulation 8-8, BACT, offsets, toxics, cumulative increase)
- B4. Deleted. (Carbon system A-38 removed from service).
- B5.
- A. Permittee/Owner/Operator shall ensure that non-methane hydrocarbon emissions to the atmosphere from the thermal incinerator A-39 do not exceed 10 ppm (calculated as C1) on a rolling one hour average basis. (basis: BACT, offsets, cumulative increase)
- B. Deleted. (Carbon system A-38 removed from service).
- B6. Deleted. (Carbon system A-38 removed from service).
- B7. Permittee/Owner/Operator shall ensure that H2S emissions to the atmosphere from the thermal incinerator A-39 do not exceed 1 ppm. (basis: toxics)
- B8. Deleted. (Carbon system A-38 removed from service).
- B9. Deleted. (Initial source test completed in April and May 1992.)
- B10. Permittee/Owner/Operator shall ensure that the thermal incinerator A-39 shall not be used to abate stripped gas from the air stripper S-1026 unless A-39 is operating at a minimum temperature of 1350 oF, to ensure compliance with Condition Nos.B5A and B7. (basis: cumulative increase, offsets, BACT)
- B11. Permittee/Owner/Operator shall install, maintain, and operate a District- approved continuous temperature monitor/ recorder on A39 Thermal Oxidizer to verify compliance with Part B10.

(basis: BACT, offsets, cumulative increase)
- B12. Permittee/Owner/Operator shall maintain a file of District approved logs containing all measurements, records, charts, and other data which are required of this conditional permit, as well as all other data and calculations necessary to determine compliance with the conditions of this permit. This file must include, but is not limited to:
- A. The hours of operation of each permitted piece of equipment, including identification of the abatement device(s) used to control emissions from air stripper S-1026 and the API/DAF system S-819: thermal incinerator A-39 or the refinery vapor recovery system A-14 (backup abatement device for S-819 only).
- B. Each monitor reading, recording, or analysis result for the day of operation they are taken.
- C. Deleted. (Carbon system A-38 removed from service)..

Permittee/Owner/Operator shall ensure that the District approved logs are kept on site and that they are made available for District inspection upon request for a period of at least 5 years following the date on which such measurements, records, or data are made or recorded.

Any exceedance of Parts. B5, B7 and/or B10 shall be reported to the District's Enforcement Division within 96 hours after such occurrence. The submittal shall include the data showing the exceedance and its time of occurrence, and shall detail the nature, extent, probable cause, and corrective action taken.

(basis: BACT, offsets, cumulative increase, toxics)

Condition 7688

S1101 Subsurface Aeration System [at Tract 3 West Canal]

S1102 Subsurface Aeration System [at Tract 3 North Pond]

S1103 Subsurface Aeration System [at Clean Canal Forebay]

S1104 Subsurface Aeration System [at Oily Canal]

Permit Conditions for Subsurface Aerators Systems at S-1101, S-1102, S-1103, and S-1104:

1. Permittee/Owner/Operator shall ensure that operation of this equipment is limited to the locations and aeration equipment specified unless Permittee/Owner/Operator has applied to, and received written approval from, the District for a change in permit conditions. (basis: cumulative increase)

Condition 8077

Application 27769 The No. 3 HDS Unit (1981)

Permit No. 3318: Refinery Modernization Project Permit Conditions

New permit conditions for Permit No. 3318

Application 14047: Clarify conditions to allow owner/operator to shutdown ammonia injection to A-31 SCR during both startup and shutdown of S-974 (Part A2A).

Application 19300 (December 2008) Added S-904 No. 6 Boiler House

Application 19647 (March 2009) Consolidate With Condition 4357

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Changed by Application 21711 (May 2010) Deleted Parts A10-A14 (redundant or completed items). Revised Part B6B and deleted Part B6D (S848 out of service)

Administratively Changes by Application 24056 (June 2012). Corrected source list and CO limits and monitoring in Part B7.

Administratively Changed by Application 26272 (May 2014). Lowered mass emission limits of Parts B2A and B2B to reflect emission credits granted for the Coker Modification Project (Application 17798) and the transfer of the No 2 Hydrogen Plant to Air Products.

Modified by Application 27309 (August 2015). Increased startup and shutdown duration and emissions for S-973 and S-974 in Part A2A.

Administratively changed by application 23322 (September 2015) added Parts C3 and C4 firing rate limits to hydrocracker furnaces in accordance with hydrocracker expansion project Application 548 (1987).

Revised by Application 23322 (January 2016). Added Parts C3 and C4 for S-928 through S-935 based on Application 548.

Administratively Changed by Application 28445 (September 2017). Removed S-963.

Administratively changed by Application 28419. Adjusted limits in Part B2 consistent with the emission reduction credits approved for S-963 in Banking Certificate 1625.

Application 30729 (September 2020) - Revised Part B9 to include SO₂ mass emission rate for low sulfur production.

Administratively changed by Application 29278 (February 2021). Revised Parts A10, A13, A14, A17, B6B, B7B, B7C, B7D, B8B, B9Bii, B12A, B12B and B12I.

Application 30768 (September 2022). Deleted Parts B6A, B7D, B8D, B9A, B9B, B9C and Revised Parts B4A, B4B, B4C, B6D, B7B, B7D due to the shutdown of S-851, S-856, S-901, S-904, S-908, S-909, S-912, S-913, S-915, S-916, S-917, S-921, S-927, S-950, S-951, S-955, S-956, S-957, S-958, S-959, S-960, S-971, S-972, S-974, S-1009, and S-1401 as part of Marathon's Renewable Fuels Project. Revised limits in part A2.A to accommodate the shutdown of S-974 and revision of applicability to S-973. Deleted Parts B3A.ii and B3B.iii as the facility will no longer process crude oil. Deleted Parts B6C, C1, C3 and referenced Permit Condition #27584 for new processing rates and recordkeeping requirements. Application 30806 has been submitted to address the bubble condition and Alternative NO_x Compliance Plan for Regulation 9, Rule 10.

Administratively changed by Application 32029 (June 2023). Removed S57 and S1421 from list of sources and Part B8C.

Appendices A-D

Hyperlink to Appendix A to go here. http://www.baaqmd.gov/~media/files/engineering/title-v-permits/b2758_b2759/b2758-9_2005-08_reopen_02a.pdf?la=en

Hyperlink to Appendix B to go here. http://www.baaqmd.gov/~media/files/engineering/title-v-permits/b2758_b2759/b2758-9_2005-08_reopen_02b.pdf?la=en%20

Hyperlink to Appendix C to go here. http://www.baaqmd.gov/~media/files/engineering/title-v-permits/b2758_b2759/b2758-9_2005-08_reopen_02c.pdf?la=en

Hyperlink to Appendix D to go here. http://www.baaqmd.gov/~media/files/engineering/title-v-permits/b2758_b2759/b2758-9_2005-08_reopen_02d.pdf?la=en

S323 Tank A-323
S850 No. 3 HDS Unit (Permitted by Application 27769)
S854 East Air Flare (Permitted by Application 27769)
S919 No. 2 HDS Depent Reboiler (F19)
S920 No. 2 HDS Charge Heater (F20)
S928 HDN Reactor A Heater (F28)
S929 HDN Reactor B Heater (F29)
S930 HDN Reactor C Heater (F30)
S931 Hydrocracker Reactor 1 Heater (F31)
S932 Hydrocracker Reactor 2 Heater (F32)
S933 Hydrocracker Reactor 3 Heater (F33)
S934 Hydrocracker Stabilizer Reboiler (F34)
S935 Hydrocracker Splitter Reboiler (F35)
S937 Hydrogen Plant Heater (F37)
S952 Internal Combustion Engine
S953 Internal Combustion Engine
S954 Internal Combustion Engine
S973 No. 3 HDS Recycle Gas Heater (F55) (Permitted by Application 27769)
S1024 No 3 HDS Feed Tank (Permit Exemption by Application 27769)

A2A. For S-973, the total start-up or shutdown period during which S-973 may be operated without ammonia injection at A-31, No. 3 HDS Selective Catalytic Reduction Unit, shall not exceed 72 hours per start-up or shutdown. For S-973, the total combined start-up and shutdown time shall not exceed 432 hours during any rolling 12 consecutive month period. During the start up or shutdown period for S-973, NOx emissions from S-973 shall not exceed 130.5 pounds during any rolling 24 consecutive hour period. During the start up or shutdown period for S-973, NOx emissions from S-973 shall not exceed 130.5 pounds during any rolling 24 consecutive hour period. For S-973, sum total NOx emissions occurring during start up and shutdown shall not exceed 2628 pounds during any rolling 12 consecutive month period. NOx emissions from S-973 shall not exceed 2628 pounds during any rolling 12 consecutive month period.

(basis: cumulative increase, offsets)

A2B. Permittee/Owner/Operator shall begin ammonia injection at A-31 as soon as the temperature of the exhaust at the inlet of A-31 reaches 530 degrees Fahrenheit.

(basis: cumulative increase, offsets)

A8. Deleted. (NOx CEM installed on S908. Semiannual CO Source Test required in Condition 18372, Part 34.)

A10. Deleted. (Completed. All new valves in volatile hydrocarbon service or ammonia service installed for Permit 3318 were "low emission" valves as specified.)

A11. Deleted. (Final fugitive component count not required because POC emissions Cap not changed.)

A12. Deleted. (Completed. All new pumps in volatile hydrocarbon service installed for Permit 3318 were double mechanical seals with a barrier fluid which either: 1) is at a higher pressure than the seal pressure, or 2) is vented to a closed system, or 3) an equivalent sealing system approved by the APCO.)

A13. Deleted. (Completed. Permittee/Owner/Operator installed at least one magnetically-driven pump or equivalent equipment approved by the APCO.)

A14. Deleted. (Completed. Permittee/Owner/Operator has implemented an inspection and maintenance program for all pumps, compressors, valves, and flanges associated with this project in accordance with District Regulations 18, 25, and 28.)

A16. For the purposes of these permit conditions, all source testing and monitoring requirements will be subject to the following general provisions:

a. At least two weeks prior to testing, Permittee/Owner/Operator shall contact the District's Source Test Section, in writing, to provide notification of the testing procedure, date and time, and to obtain details on source testing requirements. Source test procedures are subject to approval of the APCO.

b. Deleted. (Authority to Construct requirement to submit CEM specifications and plans for approval has been completed.)

c. Deleted. (Authority to Construct requirement to submit plans showing sampling facilities for approval has been completed.)
(basis: MOP Volume IV)

A17. Deleted. (Completed upon implementation and issuance of the Permit to Operate. The mitigation measures in the Mitigation Monitoring Program for which the District is listed as the Responsible Entity are considered to be permit conditions for Permittee/Owner/Operator for the purposes of this Authority to Construct. These mitigation measures are specified in the Mitigated Negative Declaration adopted by the District on December 16, 1991. (basis: cumulative increase, offsets)

B1. Definitions.

a. "Permitted annual emissions" shall mean the allowable emissions for a calendar year authorized by these conditions.

b. "Total annual emissions" shall mean the actual emissions which occur in any calendar year.

c. "Total monthly emissions" shall mean the actual emissions which occur in any calendar month.

- d. "Calendar day" (CD) of "calendar day basis" shall mean an average value determined by dividing the yearly total by 365.
- e. "Stream day" (SD) or "stream day basis" shall mean the total value occurring on any one 24-hour day, from midnight to midnight, and is the actual daily rate.
- f. "Calendar month" shall mean any month of the year measured from 12:01 A.M. on the first day of that month to midnight on the last day of that month.
- g. "Calendar year" or "year" shall mean the year measured from 12:01 A.M., January 1 to midnight, December 31.
- h. "permitted Monthly Maximum Emissions" shall mean the maximum allowable emissions for any calendar month authorized by these conditions.
- i. "Permitted Monthly Compensatory Emissions" shall mean the allowable emissions in a calendar month before compensatory emission reductions are required.
- j. "Startup" shall mean that period of time during which the piece of equipment in question is put into normal operation from an inactive status by following a prescribed series of separate steps or operations, not to exceed 8 hours. Permittee/Owner/Operator may develop and present specific alternate startup times for certain units. If approved by the APCO, these specific startup times will be used in place of the standard 8 hour time period for the given units.
- k. "Shutdown" shall mean that period of time during which the piece of equipment in question is taken out of service from a normal operating mode to an inactive status following a prescribed series of separate steps of operations, not to exceed 8 hours. Permittee/Owner/Operator may develop and present specific alternate shutdown times for certain units. If approved by the APCO, these specific shutdown times will be used in place of the standard 8 hour time period for the given units.
- l. "Light hydrocarbon service" shall mean the handling or service of liquid or gas-liquid streams with a true vapor pressure greater than 0.5 psia.

(basis: definitions)

B2. Emissions. The specific emission points covered by the various limitations listed in B2A-B2D below are set forth in Table A of the Appendix to these Conditions.

A. Listed below are the permitted annual emission limits for the emission points covered by this permit. If the permitted annual emission limit for any pollutant is exceeded, the applicable provisions of Section B3A shall apply.

Particulates	414.358	tons/year
Hydrocarbons	216.830	tons/year
NOx	1166.375	tons/year
SO2	1674.373	tons/year
CO	482.039	tons/year

(basis: cumulative increase, removal of Air Products No.2 Hydrogen Plant S-1030 and S 1031 from cap March 2012. First permitted in 1991 via Application 3318. Total reductions: NOx- 16.1 tons/yr; CO- 21.9 tons/yr; HC- 3.9 tons/yr; SO2- 4.5 tons/yr; PM- 12.9 tons/yr)

B. Listed below are the permitted monthly maximum emission limits for the emission points covered by this permit. If the permitted monthly maximum emission limit for any pollutant is exceeded, the applicable provisions of Section B3B shall apply.

Particulates	43.613	tons/month
Hydrocarbons	76.594	tons/ month
NOx	197.893	tons/ month
SO2	441.864	tons/ month
CO	49.420	tons/ month

(basis: cumulative increase)

C. Listed below are the permitted monthly compensatory emission limits applicable to the emission points covered by this permit and Permittee/Owner/Operator shall ensure that the emission limits are met. If the permitted monthly compensatory emission limit for any pollutant is exceeded, the applicable provisions of Section B3C shall apply.

Particulates	42	tons/month
CO	49.1	tons/month

(basis: cumulative increase, BACT, offsets)

D. If, at the end of any calendar month, the total emissions accumulated so far in that calendar year exceed the permitted annual emissions prorated to the number of months elapsed so far that year plus the amounts set forth below, the informational requirements of Section B3D shall apply.

Particulates	9	tons
Hydrocarbons	35	tons
NOx	69	tons
SO2	258	tons
CO	8.1	tons

(basis: cumulative increase, offsets)

E. The limits set forth in B2A & B2B above are legal limits which must not be exceeded. Accordingly, in the event that any such limit ever is exceeded, Permittee/Owner/Operator will be immediately subject to the applicable sanctions in Section B3 below.

(basis: cumulative increase, offsets)

B3. Emission Reductions. The following conditions will apply as appropriate, when any of the various permitted emission limits set forth in Section B2 above are exceeded.

A. If any of the permitted annual emission limits of B2 are exceeded, the following conditions shall apply:

- i. Permittee/Owner/Operator shall install and maintain on a permanent basis abatement equipment as specified in the Environmental Management Plan (or such other abatement measures approved by the Air Pollution Control Officer which will achieve equivalent emission reductions), to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e. for every ton per year by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per year). The limits in Condition B2A will be reduced accordingly;
- ii. Deleted. The facility will no longer process crude oil via Application 30768.
- iii. the permitted annual emissions limit for the pollutant of concern shall be reduced by the amount by which said limit was exceeded on a prorated calendar monthly basis, until the emission reductions required under subsection B3A.i. above are achieved.

(basis: cumulative increase, offsets, bubble)

B. If any of the permitted monthly maximum emission limits of B2B are exceeded, the following conditions shall apply:

- i. The excess shall be charged against the permitted annual limit in B2A above which is applicable to that pollutant by twice the amount by which the limit in B2B is exceeded; provided, however, that if such monthly excess occurs during December, then, to the extent that such excess cannot be charged as provided above without causing the annual limit to be exceeded, it will be charged once against the current calendar year and once against the following calendar year;
- ii. Permittee/Owner/Operator shall either (a) install and maintain on a permanent basis abatement equipment or take measures which will achieve equivalent emission reductions as specified in the Environmental Management Plan to control emissions of the pollutant of concern so as to offset the excess at a ratio of 2:1 (i.e. for every ton per month by which the applicable limit is exceeded, the hardware to be installed or other measures to be taken shall achieve a permanent emission reduction of 2 tons per month); or (b) take such other abatement measures approved by the Air Pollution Control Officer which will prevent a recurrence of the type of incident which caused the excess; and

iii. Deleted. The facility will no longer process crude oil via Application 30768.

(basis: cumulative increase, offsets)

C. If any of the permitted monthly compensatory emission limits of B2C are exceeded, then the excess shall be charged against the permitted annual limit in B2A above which is applicable to that pollutant by twice the amount by which the limit in B2C is exceeded; provided, however, that if such monthly excess occurs during December, then, to the extent that such excess cannot be charged as provided above, without causing the annual limit to be exceeded, it will be charged once against the current calendar year and once against the following calendar year. However, this provision shall only apply when the sanctions set forth in subsection B3B above are not triggered. (basis: cumulative increase, offsets)

D. If any of the limits of B2D are exceeded, Permittee/Owner/Operator shall submit to the District within 30 days of the end of that calendar month a revised Environmental Management Plan in accordance with Section B14 below, which shall indicate the steps to be taken to assure that the permitted annual emission limits in B2A will be met for that calendar year. (basis: cumulative increase, offsets)

E. Deleted. Regulation 2, Rule 2, 12/19/2012 Amendment. Trading POC for NOx is no longer allowed.

F. In the event that Permittee/Owner/Operator installs abatement equipment to achieve 2:1 offsets on a permanent basis (or takes measures which will achieve equivalent permanent emission reductions) pursuant to subsection B3B.ii.(a) above, any such emission reductions will be credited towards emission reductions which may be required under subsection B3A.i. above for that same calendar year, provided the generation of offsets complies with applicable requirements of the SIP adopted version of Regulation 2, Rule 2. (basis: cumulative increase, offsets)

B4. Monitoring. The following monitoring instruments listed shall be installed, calibrated, maintained and operated by Permittee/Owner/Operator:

A. An instrument to continuously monitor and record the H2S concentrations in fuel gas. being fed to the following new or modified units, which will be required to comply with the New Source Performance Standard for the burning of fuel gas (0.23 grams of H2S/dry standard m3 on a 3-hour average basis):

No. 3 HDS Recycle Gas Heater, S-973

(basis: NSPS)

B. An instrument to continuously monitor nitrogen oxide emissions and oxygen concentration in the flue gas from the following units:

No. 3 HDS Recycle Gas Heater, S-973

Hydrocracker Stabilizer Reboiler (F34), S-934

Hydrocracker Splitter Reboiler (F35), S-935

(basis: cumulative increase, offsets)

C. An instrument to continuously or sequentially monitor stack oxygen concentrations on each of, and an instrument to monitor fuel usage by, the following units:

#2 HDS - #20 Charge Heater, S-920,

HDN Reactor - #28 Furnace, S-928,

HDN Reactor - #29 Furnace, S-929,

HDN Reactor - #30 Furnace, S-930,

Hydrocracker - #31 Furnace, S-931,

Hydrocracker - #32 Furnace, S-932,

Hydrocracker - #33 Furnace, S-933,

(basis: cumulative increase, offsets)

To the extent that it is technologically feasible to do so, all of the required stack oxygen concentration monitors shall be equipped with oxygen analyzer controlled by feedback systems set at oxygen levels

which will yield the minimum amount of nitrogen oxides while still achieving complete combustion. If such feedback systems are not feasible for any of these units, Permittee/Owner/Operator shall substitute alternative controls to be approved by the Air Pollution Control Officer.

(basis: cumulative increase, offsets)

D. All other instruments listed on Table D of the Appendix to these Conditions, which are not specifically referred to in B4A-B4C above.

(basis: cumulative increase, offsets)

B5. Reporting and Record Keeping. The following conditions will document Permittee's/Owner's/Operator's emissions on a monthly basis, in addition to satisfying the requirements of Regulation 10- 1-402 of District regulations. These reporting requirements do not eliminate the need to comply with any other District reporting and record keeping requirements.

A. Permittee/Owner/Operator shall maintain a file containing all measurements, records, charts and other data which are required to be collected pursuant to the various provisions of this conditional permit, as well as all other data and calculations necessary to determine actual emissions from all emission points covered by this permit. This file, which may contain confidential or proprietary data, shall include, but not be limited to: the data collected from all in-stack monitoring instruments, the records on fuel input rates and relevant records of crude oil and other hydrocarbons processed. Estimates of emissions from all units covered by this permit which are included under the limits set forth in Part B2 above shall be calculated in accordance with Tables B & C of the Appendix to these Conditions. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase, offsets)

B. Permittee/Owner/Operator shall make a monthly report to the District, within 30 days after the end of each month, which shall specify the emissions from all operations covered by this permit during the previous month, and shall state in detail the basis therefore. The reporting format for such reports shall be structured so as to enable the Air Pollution Control Officer to readily determine compliance with the provisions of this Conditional Permit, and shall be subject to the approval of the APCO. Any computer programs utilized by Permittee/Owner/Operator to calculate emissions from any operations covered by this permit shall also be subject to the approval of the APCO. (basis: cumulative increase, offsets)

C. Permittee/Owner/Operator shall conduct monthly audits of all emission and fuel rate monitoring systems required under Part B4 above to insure that instrument accuracy is maintained. Permittee/Owner/Operator shall promptly repair all malfunctioning systems and replace any system that has a chronic problem. A record of the results of all such audits shall be maintained as part of the file required under B5A above. (basis: cumulative increase, offsets)

B6. Process Unit Design.

A. Deleted. S-851 is shutdown via Application 30768.

B. Deleted. (The S-850 process unit work was completed and the unit capacity design was confirmed and limited by Part B6C.)

C. Deleted. See Permit Condition #27584 for new processing rates via Application 30768.

D. Deleted. (S848 no longer in service.)

B7. Combustion Controls.

A. Except during periods of startup or shutdown, emissions of nitrogen oxides (calculated as NO₂) and carbon monoxide shall not exceed the following limits.

NOx (ppmvd)	CO (ppmvd)	Unit(s)
40	N/A	S-973
60	N/A	S-919, S-934 & S-935
75	N/A	S-971 and S-972

These limits shall be based on an 8 hour average and corrected to 3% excess oxygen on a dry basis. (basis: cumulative increase, offsets, BACT)

B. The maximum firing rate of S-973 shall not exceed 110 MMBTU/hr. (basis: cumulative increase, offsets)

C. Deleted. (The requirement to demonstrate NO_x emissions do not exceed 160 lb. NO_x per billion BTUs heat input is subsumed by the requirements of Regulation 9, Rule 10 which requires a more stringent limit of 33 lb NO_x per billion BTUs heat input and is demonstrated daily in the quarterly 9-10 NO_x compliance reports.)

D. For the furnaces deleted from 4C above, namely sources 919, 934, 935, and 937, Permittee/Owner/Operator shall demonstrate by source test that NO_x and CO emissions do not exceed the emission limits in Part B7A, when firing refinery fuel gas at operating conditions specified in District-approved source test protocol. Such demonstration shall be made annually. (basis: cumulative increase, offsets)

B8. Hydrocarbon Controls.

A. All new compressor seals in hydrocarbon service associated with this project shall be vented to a closed gas system, except for two high purity hydrogen make-up compressors at the new No. 3 HDS Unit. The vapors from the seals on the three (3) existing compressors S-952, S-953, and S-954 shall be collected and vented directly to the compressor inlets, or a closed gas system. (basis: cumulative increase, offsets, BACT)

B. Deleted. (Completed. Construction of all new pumps in light hydrocarbon service were equipped with double mechanical seals as required.)

C. Hydrocarbon vapors associated with S-323 shall be controlled by venting to the vapor recovery system. This condition is in place to assure that offsets provided as part of Application No. 27769 are

permanent. S-323 was modified via 2004 Application 10667. See Condition 13605. (basis: cumulative increase, offsets, BACT)

D. Deleted. No. 4 Gas Plant and associated compressors (S-955 through S-960) are shutdown via Application 30768.

B9. Sulfur Recovery Facilities.

A. Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

B. Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

i.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

ii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

iii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

iv.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

v.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

vi.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

vii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

viii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

ix.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

C. Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

i.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

ii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

iii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

iv.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

v.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

vi.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

vii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

viii.Deleted. Sulfur Recovery Facilities S-1401 and S-1411 are shutdown via Application 30768.

B10. Access.

A. The APCO or his/her representatives and the U. S. Environmental Protection Agency shall have access to appropriate portions of the refinery and wharf, to conduct source tests or inspections in accordance with Section 1-440 of the District's Rules and Regulations, and the provisions of the Clean Air Act.

B. The APCO or his/her representatives and the U. S. Environmental Protection Agency shall have the right to inspect and audit all records which are required to be maintained by Part B5 above, and any other records in Permittee's/Owner's/Operator's possession which will disclose the nature of quantity of emissions from refinery and marine operations.
(basis: cumulative increase, offsets)

B11. Enforcement.

A. Violation by Permittee/Owner/Operator of any of the conditions set forth in this Conditional Permit shall subject Permittee/Owner/Operator to enforcement action under Chapter 4 of Part 4 of Division 26 of the California Health and Safety Code, and to enforcement action by the U. S. Environmental Protection Agency pursuant to the Clean Air Act (42 U.S.C. 7401, et seq.). As appropriate, each and every such violation shall be deemed to be a discrete and separate violation with respect to which the District will be entitled to take legal action. (basis: cumulative increase, offsets)

B12. Miscellaneous.

A. Deleted. (The No. 1 Isomerization Unit was dismantled as required.)

B. Deleted. (Tanks A-142 and A-319 were dismantled as required.)

C. All equipment, facilities, and systems installed or used pursuant to, or to achieve compliance with the terms and conditions of, this Conditional Permit shall at all times be maintained in good working order and be operated with due regard for the goal of complying with the terms and conditions of this permit and with all applicable District regulations.

D. Nothing in these conditions shall be construed to allow the violation of any law or of any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency.

E. Any emission reductions which Permittee/Owner/Operator may be required to undertake in accordance with Part B3 above shall not be eligible to be credited as emission reductions against any subsequent projects for purposes of calculating "cumulative increases", nor shall they be eligible to be "banked" in accordance with the District's New Source Review Rule. However, any emission reductions which Permittee/Owner/Operator achieves in accordance with the Rules and Regulations of the District, above and beyond those reductions required pursuant to this Conditional Permit, may be so credited or "banked".

F. In the event of changes in District regulations which will require actual reductions in the amount of emissions from existing sources which would otherwise be allowed under the terms of this

Conditional Permit, the annual limits set forth in Part B2 above shall be reduced by the APCO by an amount equivalent to what would be required under any such rule change.

G. The baseline emissions for purposes of the permit analysis of any proposed new or modified units, which may in the future be proposed to be built by Permittee/Owner/Operator within the boundaries of the Golden Eagle Refinery, will be the limits set forth in Part B2A above, as may be amended to reflect subsequent revisions to District rules pursuant to Part B12F or subsequent deposits to or withdrawals from the District's emissions bank, rather than actual emissions after the baseline period of 1977-1979 (which was used as the basis for issuance of this permit), if doing so is allowed pursuant to the SIP adopted version Section 604.2 of Regulation 2, Rule 2.

H. Deleted. The No. 3 HDS Project was completed in the 1980's.

I. Deleted. (Current permit regulations require offsets for emission increases associated with any tank changing to non-exempt service. The bubble adjustment of Part G is no longer an option.)

J. Instrument downtime (including, but not limited to, in-stack monitors and other instruments whose readings are used to calculate emissions) caused by malfunction, upset, breakdown, repair, maintenance or failure where such instrument downtime exceeds a continuous 24-hour period shall be handled as follows for purposes of calculating emissions: Emissions shall be determined by reference to the recorded value for that instrument from the last calendar day (or other relevant period) immediately preceding the day on which the instrument in question became inoperable, for which there was a valid reading, unless the Air Pollution Control Officer determines on the basis of other evidence (such as, but not limited to, the results of source tests conducted during the period in which the instrument is not operating, or changes in operating conditions of the unit in question) that some other value more reasonably reflects the actual emissions during the period in question.

K. Emissions in excess of applicable emission limitations resulting from breakdowns, malfunctions or other causes for which a variance, an interim variance, or an emergency variance is granted by the Hearing Board, or for which the Air Pollution Control Officer grants relief in accordance with Section 1-112 of the District's Rules and Regulations, may be excluded by the Hearing Board or Air Pollution Control Officer, as appropriate, from those emission totals which are counted towards compliance with the limits set forth in Part B2 above; provided, however, that this provision shall not excuse Permittee/Owner/Operator from the obligation to report to the District pursuant to B5B above the actual emissions from the emission points covered by this permit during the period covered by any such relief. This part (part B12K) of this condition is not federally enforceable.

L. If Permittee/Owner/Operator can demonstrate by modeling to the satisfaction of the Air Pollution Control Officer, consistent with the requirements of the SIP adopted version of Regulation 2, Rule 2 and applicable provisions of the federal Code of Regulations, that increased emissions of carbon monoxide from all emission points covered by this permit will not interfere with the attainment or maintenance of all applicable air quality standards for CO within the District, then the various limits for carbon monoxide set forth in Part B2 of this permit shall be adjusted accordingly.
(basis: cumulative increase, offsets)

B13. Severability.

The provisions of this Conditional Permit are intended to be severable, and, if any individual condition or provision hereof is held to be invalid by order of any court of competent jurisdiction, or for any other reason, the remainder of this Conditional Permit shall not be affected thereby. (basis: cumulative increase, offsets)

B14. Environmental Management Plan.

Sixty days prior to start-up of the No. 2 Hydrogen Plant (S-994) HDS Unit, an initial Environmental Management Plan (EMP) shall be submitted to the District for review by the Air Pollution Control Officer. (basis: cumulative increase, offsets)

This plan shall specify how Permittee/Owner/Operator will assure that the permitted annual and monthly maximum emission limits set forth in Parts B2A and B2B above will not be exceeded, and also shall describe feasible options for providing emissions reductions which would be required under Part B3 above, if any of the emissions limits of Parts B2A and B2B were exceeded. The options to be described shall include the installation of various types of abatement equipment which would achieve permanent offsets, and the adoption by Permittee/Owner/Operator of various operational limitations and other short-term control measures which would limit emissions. Both long-term and short-term control options shall be discussed. The purpose of this plan is to provide assurance that Permittee/Owner/Operator is capable of taking all reasonable steps to assure that the various limits established by this Conditional Permit will be complied with, and to expedite any installation of abatement equipment if it is ever required.

The EMP shall be updated and resubmitted to the District for review by the APCO, whenever any of the limits set forth in Part B2D above are exceeded, or within 1 year after the most recent EMP submittal, whichever comes first. However, in the event that EMP submittal is triggered by an excess of any of the limits of Part B2D, that resubmittal shall also describe in detail the means by which Permittee/Owner/Operator will assure that the permitted annual emissions limit of Part B2A will not be exceeded for that calendar year, and shall describe in detail specific control techniques available, and the sources to which they would be most applicable, in the event that permanent offsets were needed.

To the extent that any EMP submittal contains confidential information, such information shall be afforded the protection provided by applicable laws, rules and regulations.

Once the APCO has reviewed an EMP submittal, the District staff's comments and recommendations on it shall be forwarded to Permittee/Owner/Operator as expeditiously as practicable. Within 30 days after its receipt of such comments and recommendations, Permittee/Owner/Operator shall either (1) revise the EMP to reflect such comments and recommendations; or (2) attach as an Appendix to the EMP all comments and recommendations which Permittee/Owner/Operator did not include in its EMP revision together with a detailed explanation as to why each comment and recommendation was not adopted or included in the EMP itself.

(basis: cumulative increase, offsets)

Changes to Permit No. 548 (the Hydrocracker Expansion Project):

C1.Deleted. See Permit Condition #27584 for new processing rates via Application 30768.

C2.Deleted. See Permit Condition #27584 for new requirements via Application 30768.

C3.Permittee/Owner/Operator shall not exceed 20 MMBtu/hr on a calendar day basis and 175,200 MMBtu/yr on any of the furnaces S928 through S933. (basis: cumulative increase)

C4.Permittee/Owner/Operator shall not exceed 135 MMBtu/hr on a calendar day basis and 1,182,600 MMBtu/yr on either furnace S934 or S935. (basis: cumulative increase)

Condition 8350

S1002 Propane Dryers (formerly No. 1 HDS Unit)

S1003 Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)

S919 No. 2 HDS Depent Reboiler (F19)

S920 No. 2 HDS Charge Heater (F20)

Application #6468,

Modified by Application 14325

Administratively Changed By Application 18861 (June 2009) Removed Completed Parts And Parts Redundant With District Regulation

Diesel Fuel Modification Project Permit Condition 8350

Permit Conditions for S-1002, No. 1 HDS Unit:

Administratively Changed By Application 23322 (January 2016) Added Firing Rate Limits To Furnaces In Accordance With 1987 Appliction 164 and 1991Application 6468.

Application 30768 (September 2022). Deleted Parts A5, A6, B7, and C1 through C5 due to the shutdown of S915, S916, S917, S-921, and S1006 as part of Marathon's Renewable Fuels Project. Deleted A1, A4, B1, and B4, as S-1002 and S-1003 no longer operate as HDS units. See Permit Condition #27584 for new permit conditions associated with Renewable Fuels Project.

Application 30806 has been submitted to address the bubble condition and Alternative NOx Compliance Plan for Regulation 9, Rule 10.

Diesel Fuel Modification Project Permit Condition 8350 Permit Conditions for S-1002, No. 1 HDS Unit:

A1. Deleted. S-1002 process unit is shutdown, but existing propane dryers are repurposed for LPG via Application 30768. See Permit Condition #27584.

A2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 5.04 lb/day limit)

A3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)

A4. Deleted. S-1002 process unit is shutdown, but existing propane dryers are repurposed for LPG via Application 30768. See Permit Condition #27584.

A5. Deleted. S916 is shutdown via Application 30768.

A6. Deleted. S917 is shutdown via Application 30768.

Permit Conditions for S-1003, No. 2 HDS Unit:

B1. Deleted. S-1003 is repurposed to function as a diesel hydrodeoxygenation (HDO) unit via Application 30768. See Permit Condition #27584.

B2. Completed. (Final fugitive count submitted 3/24/94, showing emissions less than the initial 4.04 lb/day limit)

B3. Deleted. (Completed. All new hydrocarbon vapor pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)

B4. Deleted. S-1003 is repurposed to function as a diesel hydrodeoxygenation (HDO) unit via Application 30768. See Permit Condition #27584.

B5. Permittee/Owner/Operator of S-919 shall not exceed 111 MMBtu/hr on a calendar day basis and 972,360 MMBtu/yr. (basis: cumulative increase)

B6. Permittee/Owner/Operator of S-920 shall not exceed 63 MMBtu/hr on a calendar day basis and 551,880 MMBtu/yr. (basis: cumulative increase)

B7. Deleted. S921 is shutdown via Application 30768.

Permit Conditions for S-1006,

No. 1 Reformer Unit to be converted to No. 1 HDA Unit:

C1.Deleted. S1006 is shutdown via Application 30768.

C2.Deleted. S1006 is shutdown via Application 30768.

C3.Deleted. S1006 is shutdown via Application 30768.

C4.Deleted. S1006 is shutdown via Application 30768.

C5.Deleted. S915 is shutdown via Application 30768.

Condition 8538

S714 Tank A-714

Application 16050: Conditions for tank S-714 and caustic scrubber A-714:

1. Spent acid storage tank S-714 shall not operate unless it is abated by caustic scrubber A-714 and refinery vapor recovery system A-14, all operating properly as designed. (basis: cumulative increase)

2. Refinery vapor recovery system A-14 shall have a minimum precursor organic compound control efficiency of 98%, on a mass basis.

3. Only spent acid and associated organic material from the refinery alkylation unit shall be stored in tank S-714 unless the owner/operator of S-714 has received prior, written authorization from the District for an alternate material(s). (basis: cumulative increase)
4. The true vapor pressure of the materials stored in tank S-714 shall not exceed 11 psia. (basis: cumulative increase)
5. The total material throughput for tank S-714 shall not exceed 500,000 barrels during any consecutive 12-month period. (basis: cumulative increase)
6. To demonstrate compliance with Condition Nos. 3, 4, and 5, the owner/operator of S-714 shall maintain the following records in a District approved log. These records shall be kept on site and made available for District staff inspection upon request for a period of 5 years from the date that the record was made (Basis: recordkeeping):
 - a. The types of material stored and the dates that the materials were stored.
 - b. The total throughput of each material stored, summarized on a monthly basis.
7. Deleted. Credits surrendered 10/19/1999.

Condition 9875

Application 10544 (September 1993)

Application 13240 (January, 2006): Correct grandfathered throughput limit in the Title V permit. Make limit a hard limit and update the number of fugitive components.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

S1452 Hydrocarbon Recovery System, which includes 47 oil/water wells, and associated pumps (39 Light Hydrocarbon Pumps and 8 Heavy Hydrocarbon Pumps (exempt), valves and flanges.

1. Deleted. (Redundant with Regulation 8-18.)
2. Deleted. (Completed. All new above ground pumps installed or replaced at S-1452 are sealless diaphragm type.)
3. Deleted. (Completed. All new valves in light liquid hydrocarbon service installed or replaced at S-1452 are either bellows or diaphragm type.)
4. Deleted. (Completed. All new valves in heavy liquid hydrocarbon service installed or replaced at S-1452 are either graphite packing, live loaded, or quarter turn type.)
5. Completed. (Final fugitive component count provided 12/21/05 and offsets provided via Application 13240.)
6. The owner/operator shall not exceed a throughput of oil/water at S-1452 Hydrocarbon Recovery System of 5,000,000 bbl/yr.

(basis: cumulative increase, offsets)

Condition 10696

Application 12205: Modified Permit conditions to reflect the new changes in the Foul Water Stripper Charge System

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010) Deleted Part 4.

Application 30768 (September 2022). Removed S815, S816, and S817 due to the shutdown of these sources as part of Marathon's Renewable Fuels Project. Administratively removed S529 and S530, which were previously demolished. Removed the term "refinery" in Part 1 as the facility is no longer classified as a refinery. Added highest actual consecutive 24-hour and 12-month throughputs for S-656 and S-658.

S656 Tank A-846

S658 Tank A-847

1. Volatile organic compound emissions from sources S-656 and S- 658 shall be abated at all times by the vapor recovery system A-12 operating in conjunction with the No. 5 Gas Plant and the flare gas recovery system, with an overall abatement efficiency of at least 95%. (basis: Regulation 1-301, toxics)
2. Deleted. (Redundant with Regulation 8-18.)
3. Deleted. (Completed. All new hydrocarbon vapor, pressure relief valves associated with this project are vented to the refinery flare gas recovery system.)
4. Deleted. (Final fugitive count submitted January 22, 1999 and additional offsets provided in 2010 via Application 12205.)
5. The owner/operator of S-656 shall ensure that throughput does not exceed 13,706,224 barrels in any consecutive 12 month period and/or 47,870 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

6. The owner/operator of S-658 shall ensure that throughput does not exceed 13,706,224 barrels in any consecutive 12 month period and/or 47,870 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

Condition 10984

S137 Tank A-137

Permit conditions for S-137, Fixed Roof Storage Tank:

1. The Owner/Operator shall not operate Source S-137 unless abated by the properly maintained Vapor Recovery System, A-14, at all times that S-137 is in operation except as allowed in Regulation 8, Rule 5. (basis: cumulative increase)

2. The Owner/Operator shall ensure that the total liquid throughput for Storage Tank S-137 does not exceed 1,915,000 barrels during any consecutive 12 month period. (basis: cumulative increase)
3. The Owner/Operator shall ensure that only gasoline and/or petroleum products in recovered oil service are stored in tank S-137, unless the owner/operator has received prior written authorization from the District for an alternate material(s). (basis: cumulative increase)
4. In order to demonstrate compliance with the above conditions, the owner/operator of tank S-137 shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of 5 years from the date that the record was made.
 - a. The type of all materials stored and the dates that the material were stored.
 - b. The total daily throughput of each material stored, summarized on a monthly basis. (basis: cumulative increase)

Condition 11609

S32103 Fugitive Components Compressor Seals and Pump Seals

Administratively Changed by Application 21711 (May 2010). Deleted Parts A3, C3 and D3 (completed flowrate tests) and Parts B1 through B6 (A41 is out of service). Revised B6A.

Application 30768 (September 2022). Deleted Parts B1 through B6A due to the shutdown of S1009 (Alkylolation Unit) as part of Marathon's Renewable Fuels Project. Revised Part E to indicate pumps are associated with S-554 and S-695.

Permit conditions for Plant 14628, A-40 to abate fugitive Emissions from 6 existing pumps, serving gasoline to pipelines in Tract 6: (application 13815):

- A1. The Electric Thermal Oxidizer, A-40, shall have a minimum VOC destruction efficiency of 95% by weight, minimum of 0.5 second residence time, and minimum operating temperature of 1400o°F. (basis: cumulative increase, toxics)
- A2. The Electric Thermal Oxidizer, A-40, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, toxics)
- A3. Completed (Source Test conducted 12/9/1994; reported to BAAQMD on 12/20/1994).
- A4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-40. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-40 exceed 20. (basis: cumulative increase, toxics)
- A5. When A-40 is in operation, the owner/operator of A-40 shall:
 - a. Record in a District approved log the date and time that pump seal vapors are abated by A-40.
 - b. Monitor twice daily and record in a District approved log the operating temperature of A- 40.

Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase)

Permit conditions for plant 14628, either A-41 or A-14 to abate fugitive emissions from 8 existing pumps, serving Alkylation Unit, (application 14138):

- B1. Deleted. (A41 is no longer in operation; VOC destruction efficiency of A14 Vapor Recovery System to Gas Plant and 40# Refinery Fuel Gas System does not need to be specified).
- B2. Deleted. (A41 is no longer in operation).
- B3. Deleted. (A41 is no longer in operation).
- B4. Deleted. (A41 is no longer in operation).
- B5. Deleted. (A41 is no longer in operation).
- B6. Deleted. (Each of the 8 pumps' single seals were replaced with District approved dual mechanical seals with a barrier fluid and operated such that the barrier fluid pressure is higher than the process liquid pressure.)
- B6A. Deleted. S1009 is shutdown via Application 30768.

Permit conditions for plant 14628, A-42 to abate fugitive emissions from 8 existing pumps, serving Hydrocracker Unit, (application 14432):

- C1.The Hydrocracker Electric Thermal Oxidizer, A-42, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-42 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400°F. (basis: cumulative increase, offsets)
- C2.The Electric Thermal Oxidizer, A-42, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)
- C3.Completed. (Source Test conducted within 60 days of startup as specified).
- C4.Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-42. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-42 exceed 20.

(basis: cumulative increase, offsets)
- C5.When A-42 is in operation, the owner/operator of A-42 shall keep the following records:
 - a. Record in a district approved log the date and time that pump seal vapors are abated by A-42.
 - b. Monitor twice daily and record in a District approved log the operating temperature of A-42. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made.

(basis: cumulative increase, offsets)

Permit conditions for plant 14628, A-43 to abate fugitive Emissions on 5 existing pumps, serving Tract 3, (application 14432):

D1. The Electric Thermal Oxidizer, A-43, shall have a minimum VOC destruction efficiency of 95% by weight. The Electric Thermal Oxidizer A-43 shall maintain a minimum of 0.5 second residence time, and minimum operating temperature of 1400oF. (basis: cumulative increase, offsets)

D2. The Electric Thermal Oxidizer, A-43, shall have a continuous temperature monitor. Each pump duct shall have a flow indicator. (basis: cumulative increase, offsets)

D3. Completed. (Source Test conducted within 60 days of startup as specified).

D4. Permittee/Owner/Operator shall provide the District with notice 7 days in advance of connecting/removing a pump to A-43. The notice shall include the location of the pump and its identification number. In no case shall the total number of pumps connected to A-43 exceed 20. (basis: cumulative increase, offsets)

D5. When A-43 is in operation, the owner/operator of A-43 shall keep the following records:

a. Record in a District approved log the date and time that pump seal vapors are abated by A-43. (basis: cumulative increase, offsets)

b. Monitor twice daily and record in a District approved log the operating temperature of A-43. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase, offsets)

Permit conditions for plant 14628, A-14 to abate fugitive emissions on 10 existing pumps, serving No 1. Isomerization (application 14432):

E1. All VOC emissions from pump seals of the 4 pumps, S-32103, associated with S-554 and S-695 shall be vented to and controlled at all times by the Vapor Recovery System A-14. (basis: cumulative increase, offsets)

E2. The No.1 Gas Plant Vapor Recovery System, A-14, shall have a minimum VOC destruction efficiency of 95% by weight. (basis: cumulative increase, offsets)

E3. When A-14 is in operation, the owner/operator of A-14 shall keep the following records:

a. The daily operating time of A-14. Records shall be kept on site and made available for District inspection and be retained for at least 5 years from the date on which the record was made. (basis: cumulative increase, offsets)

Condition 12016

Condition ID #12016

Application 10912 Clean Fuels Project Permit Conditions

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 21711 (May 2010). Delete Parts 9.1.5, 9.1.6, 9.2.3, 9.2.4, 9.3, 9.4.4, 9.5, 9.10.1, 9.10.2, 9.11.1, 9.11.2 and 9.11.3.

Administratively Revised by Application 30768 (September 2022). As part of Marathon's Renewable Fuels Project, many sources/units are shutdown. Specified sources installed or modified as part of the Clean Fuels Project remain subject to these permit conditions after Renewable Fuels Project.

Unless specified otherwise, the following permit conditions apply only to sources installed or modified as part of the Clean Fuels Project.

S-850 Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit)

S-1003 Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)

S-1007 Diesel Isomerization Unit (formerly Hydrocracker Unit [Hydrocracker 2nd Stage])

A-40 Thermal Oxidizer

A-42 Hydrocracker Electric Thermal Oxidizer

A-43 Tract 3 Electric Thermal Oxidizer

9.1 Source Tests / Continuous Emission Monitors

For any source test or continuous emission monitor/recorder (CEM) required by any permit condition associated with the Clean Fuels Project, the following shall apply:

1. For the purposes of determining compliance with any of the emission limits in these Clean Fuels Project permit conditions (including emission limits with averaging times that exceed the typical source test duration), the applicable source test methods in the District's Manual of Procedures shall be sufficient for documenting compliance and non-compliance. All source testing and monitoring shall be done in accordance with the District Manual of Procedures. Written source testing protocol shall be submitted to the District Source Test Division for review and approval at least 30 days prior to conducting the source test. (basis: cumulative increase, offsets, BACT)
2. The District Source Test Division shall be notified in writing of the date and time of any source test, at least 2 weeks prior to conducting the source test. (basis: cumulative increase, offsets, BACT)
3. The initial source tests required by these permit conditions shall be conducted according to the following schedule:
 - a. within 60 days of startup; or
 - b. within 30 days of achieving maximum production rate, if maximum production is not achieved within the first 30 days following startup, not to exceed 150 days from initial startup. (basis: cumulative increase, offsets, BACT)
4. Written source test results shall be submitted to the District Source Test Division and the District permit engineer within 60 days of completion of the source test, unless an extension is approved by the District. In all cases, written source test results must be received by the District within 150 days of startup. (basis: cumulative increase, offsets, BACT)

5. Completed. (Permittee/Owner/Operator provided the location of all sampling ports, platforms, etc... to the District Source Test Division for review and approval.)
6. Completed. (Permittee/Owner/Operator submitted the CEM design to the District Source Test Section for review and approval.)
7. Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. Permittee/Owner/Operator shall use a computer or stripchart to record, store, and report a summary of the CEM data for the monthly report. For any CEM that is used to verify compliance with a concentration limit that is averaged over a specified time period, average concentrations shall be calculated. These average concentrations shall be summarized in the monthly report. (basis: cumulative increase, offsets, BACT)

9.2 Record Keeping & Monthly Reporting

1. Permittee/Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least two years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of source test data, CEM data, fuel usage, emission calculations and fugitive component counts. Permittee/Owner/Operator shall also keep all records required by NSPS and NESHAP regulations. (basis: cumulative increase, offsets, NSPS, NESHAP)
2. Deleted. (All information required to determine compliance was submitted March 1, 1995.)
3. Deleted. (Monthly Reporting Requirements included in Condition 8077 and in Regulation 9, Rule 10)
4. Deleted. (Annual Reporting Requirements included in Condition 8077 and in Regulation 9, Rule 10)

9.3 Offsets

1. Deleted. (Final fugitive count and list of installed sources submitted with Application 21711 and additional offsets provided in 2010 via Application 10912)

9.4 Fugitives

Conditions 9.4-1 through 9.4-4 for fugitive emissions apply only to POC gaseous and light-liquid services.

1. Deleted. (The Authority to Construct design requirements for fugitive components are completed.)
2. Deleted. (The Authority to Construct design requirement for compressors is completed.)
3. Deleted. (The Authority to Construct design requirement definition of light liquid service for fugitive components is no longer needed.)

4. Deleted. (Final fugitive count submitted with Application 21711 and additional offsets provided in 2010 via Application 10912. Facility is permitted to emit 21.26 tons/yr POC from the Clean Fuels Project)
- 9.5 Deleted. (Fuel Gas System requirements triggered by NSPS and BACT. Since there were no new or modified combustion sources installed, these requirements are not applicable)
- 9.6 Combustion Sources (S-1033, S-1034, S-1035 and S-1036) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)
- 9.7 Storage Tanks (S-773, S-774, S-776, S-777, S-778, S-779, S-783, S-784, S-785, S-786, and S-787) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)
- 9.8 Flares (A-33 and A-35) These control devices were not installed and conditions associated with these control devices have been deleted. (basis: cumulative increase)
- 9.9 Cooling Towers (S-989, S-993, and S-994) These sources were not installed and conditions associated with these sources have been deleted. (basis: cumulative increase)
- 9.10 Toxics
 1. Deleted. (Final Project Risk did not exceed 4.5 in a million.)
 2. Deleted. (Final fugitive count submitted with Application 21711 and additional offsets provided in 2010 via Application 10912. Facility is permitted to emit 21.26 tons/yr POC from the Clean Fuels Project)
- 9.11 Summary of Refinery Cap Revisions (Refer to Appendix B, Tables B-1 and B-2.)
 1. Deleted. (The S-903 element of the CFP was not installed.)
 2. Deleted. (The CFP S773 and S774 element was not installed.)
 3. Deleted. (The CFP S937 element was not installed.)
 4. Deleted. (The Authority to Construct requirement to revise S-850 throughput in Condition 8077 was completed.)

Condition 13605

Application 25142 (March, 1996)

Amended by Application 10667 (November, 2004): Increase Reid vapor pressure from 2 to 9 psia, decrease throughput from 11,000,000 barrels/yr to 2,000,000 barrels/yr, add source testing to determine POC destruction efficiency of A-14 Vapor Recovery and process heaters.

Application 19415, (February 2009) added S-1528 Alkylate Railcar Unloading Rack

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

Administratively changed by Application 29278 (February 2021). Revised Part 4 to allow 60 days to submit source test reports.

Application 30768 (September 2022). Revised Parts 4 and 5 due to the shutdown of S-908, S-909, and S-912 and updated fuel gas users for vapor recovery as part of Marathon's Renewable Fuels Project.

S-323 Fixed Roof Tank; Tank A-323, Capacity 924K Gallons, Storing: Recovered oils and residuals from the wastewater treatment system, abated by A-14 Vapor Recovery System

S-1528 Alkylate Railcar Unloading Rack, for unloading into S-323

1. The Owner/Operator shall ensure that the net throughput of all VOC/petroleum materials at S-323 (Tank 323) and S-1528 does not exceed 2,000,000 barrels during each rolling consecutive 12-month period. A level-monitoring device in S-323 will measure the height of the tank. The change in height will be used to calculate throughput.

(basis: cumulative increase)

2. The owner/operator may store hydrocarbon materials other than gasoline and alkylate blending components in S-323, provided the following two criteria are met:

a. the Reid vapor pressure of the alternate material is not greater 9.0 psia (true vapor pressure not greater than 7.6 psia at 70F), and

b. POC emissions, based on the maximum throughput in part 1, do not exceed 1922.79 pounds per year; and

c. the resulting toxic risk from the tank does not cause the tank to fail a risk screen analysis.

(basis: cumulative increase, toxics)

3. Notwithstanding any provision of District regulations allowing for either the maintenance or malfunction of A-14 due to a valid break down at No. 1 Gas Plant vapor recovery compressor(s), the Owner/Operator shall ensure that fixed roof tank S-323 vents to existing vapor recovery unit, A-14, or an equivalent District-approved abatement system, having a minimum overall VOC control efficiency of 99.5% on a mass basis. In accordance with the NSPS requirements of 40 CFR 60, Subpart Kb, Owner/Operator shall ensure that this tank is maintained leak-free (less than 500 ppm above background as methane). (basis: cumulative increase, NSPS)

4. To determine compliance with part 3, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003).

S-919 No. 2 HDS Depent Reboiler (F19)

S-920 No. 2 HDS Charge Heater (F20)

S-928 HDN Reactor A Heater (F28)

S-929 HDN Reactor B Heater (F29)

S-930 HDN Reactor C Heater (F30)

S-931 Hydrocracker Reactor 1 Heater (F31)

S-932 Hydrocracker Reactor 2 Heater (F32)

S-933 Hydrocracker Reactor 3 Heater (F33)

S-934 Hydrocracker Stabilizer Reboiler (F34)
S-937 Hydrogen Plant Heater (F37)
S-973 No. 3 HDS Recycle Gas Heater (F55), Abated by A-31 SCR
S-1511 Hot Oil Heater #1 (F78), Abated by A-1511 SCR
S-1512 Hot Oil Heater #2 (F79), Abated by A-1512 SCR
A-1584 Trailer Mounted Combustor, 42.3 MMBtu/hr, John Zink, PECS Unit

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Compliance and Enforcement Division, and Source Test Division within 60 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

5. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids transferred through S-1528 and stored in S-323 and Reid vapor pressure ranges of such liquids.
- b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.
- c. The time, date, duration, and reason for each instance that S-323 is not abated by A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log 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, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 8-5-501, Regulation 1-238).

Condition 14905

Permit conditions for S-32102, Two 12 inch Pipelines project,
Application 17340.

Administratively Deleted by Application 21711 (May 2010). All Parts Completed or redundant with District Regulations.

1. Deleted. (Redundant with Regulation 8-18.)
2. Deleted. (All new above ground pumps installed or replaced are BACT compliant double mechanical seals with barrier fluid type.)
3. Deleted. (All new valves in light liquid hydrocarbon service installed or replaced are BACT compliant graphite gasketed type.)
4. Deleted (report of final count of actual built valves and flanges, 6/1/99).

Condition 15204

S-952 IC Engine, Compressor 4023, Abated by A-952 NSCR

S-953 IC Engine, Compressor 4024, Abated by A-953 NSCR

S-954 IC Engine, Compressor 4025, Abated by A-954 NSCR

The following conditions for the No. 1 Gas Plant compressor engines are effective January 1, 1997

Application 16779 (1996): Add NSCRs For NOx and CO Control

Administratively changed by Application 19419 (June 2009). Updated to remove parts 2, 3 and 4 that are redundant with District regulations.

Administratively changed by Application 23848 (June 2012): Updated to show sources abated by NSCRs (Tesoro 2011 TV Appeal Item 5).

1. Compressor engines S-952, S-953, and S-954 shall be fired exclusively on natural gas. (basis: cumulative increase)
2. Delete (basis: NOx emissions limit Redundant with Regulation 9-8-301.1)
3. Delete (basis: CO emissions limit Redundant with Regulation 9-8-301.3)
4. Delete (basis: Particulate emissions limit redundant with Regulation 6-1-301)

Condition 16516

Application 18835/18832 (2008) New Gasoline Station

Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

The owner/operator of the facility shall conduct and pass a Static Pressure Performance Test (Leak Test) CARB TP 206.3 at least once in each twelve consecutive month period after the date of successful completion of the startup Static Pressure Performance Test.

The owner/operator shall:

1. Notify Source Test by email (gdfnotice@baaqmd.gov) or Fax (510-758-3087), at least 48 hours prior to any required testing.
2. Submit test results in a District-approved format within thirty (30) days of testing.
 - For start-up tests results, cover sheet shall include the facility number (Facility ID) and application number of the Authority to Construct permit.

- For annual test results, cover sheet shall include the facility number (Facility ID) and identified as 'Annual' in lieu of the application number.
- Test results shall be emailed (gdfresults@baaqmd.gov) or mailed to the District's main office.

Condition 16685

Avon Refinery

Condition Added 09/02/99

Application 18739 (November 2008) Removal of S-903 & S-924

Application 19300 (December 2008) Removed S-904 No. 6 Boiler House (because S-904 is included in Condition 17322)

Administratively Revised via Application 19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Deleted by Application 19874 (July 2009) Updates for Combustion Sources – Combined with Condition 18372.

Administratively Reinstated Part 1 by Application 21464 (April 2010)

Administratively Revised by Application 25523 (Sept 2015) Revised S-926.

Administratively Revised by Application 23322 (January 2016).

Application 30768 (September 2022). Revised Part 1 due to the shutdown of S-908, S-909, S-912, S-913, S-915, S-916, S-917, S-921, S-927, S-950, S-951, S-971, S-972, and S-974 as part of Marathon’s Renewable Fuels Project. Application 30806 has been submitted to address the bubble condition and Alternative Nox Compliance Plan for Regulation 9, Rule 10.

Part #1:

Permittee/Owner/Operator shall ensure that each combustion source listed below does not exceed its indicated maximum firing rate (higher heating value), expressed in the units of million BTU per day (MMBTU/day). These firing rates are sustainable maximum firing rates. The sustainable hourly firing rates, used for billing purposes, are established by dividing the maximum daily firing rates by 24 hours. These firing limits are enforceable not-to-exceed limits but are not considered enforceable New Source Review emissions limits since these sources were not subject to Regulation 2, Rule 2 when this condition was created.

District Source Number (#)	Firing Rate Used for Fees (MMBTU/hr)	Firing Rate Enforceable Limit (MMBTU/day)	District/ Permittee Source Description
S-919	111	2664	#19Furnace -#2 HDS Depentanizer Reboiler
S-920	63	1512	#20 Furnace -#2 HDS Charge Heater
S-926	130	3120	#26 Furnace -#2 Reformer Splitter Reboiler
S-928	20	480	#28 Furnace –HDN Reactor A Heater
S-929	20	480	#29 Furnace –HDN ReactorB Heater

S-930	20	480	#30 Furnace –HDN Reactor C Heater
S-931	20	480	#31 Furnace –Hydrocracker Reactor 1 Heater
S-932	20	480	#32 Furnace –Hydrocracker Reactor 2 Heater
S-933	20	480	#33 Furnace –Hydrocracker Reactor 3 Heater
S-934	135	3240	#34 Furnace –Hydrocracker Stabilizer Reboiler
S-935	135	3240	#35 Furnace –Hydrocracker Splitter Reboiler
S-937	743	17832	#37 Furnace –Hydrogen Plant Heater
S-973	110	2640	#55 Furnace-No 3 HDS Recycle Gas Heater

(basis: Regulation 2-1-403, 1987 NSR Application 548 for S- 928 through S-935)

Condition 17477

Application 669 Tank Reconfiguration Project Tracts 4 & 6 (2000-2001)

Application 17537/17538 (2008) Remove completed and redundant tank conditions

Administratively Changed by Application 21711 (May 2010). Deleted Parts B1 through B6.

Modified by Application 27799 (October 2017).

Reformat Upgrade Project. Changed conditions for S-1464. Authority to Construct cancelled October 2019. New conditions for S-1464 deleted.

Application 30768 (September 2022). Deleted Parts C1, C2, C5, and C6, and added Part C7. S-1463 has been repurposed to store renewable feedstocks only and is exempt from permitting per Regulation 2-1-123.3.6. Revised Parts D1, D4, D5, E1, E4, E5 to include renewable diesel as storage material. Updated storing material for S-1464 and S-1465.

S-1461 External Floating Roof Tank; Capacity: 240,000 BBL, Storing: Crude Oil

A1. Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1461 does not exceed 50,000,000 barrels (2,100,000,000 gallons) during any 12 consecutive month period. (basis: cumulative increase, toxics)

A2. Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1461 is less than or equal to 10 psia. (basis: cumulative increase)

A3. Deleted. Compliance with the tank design criteria was verified when S-1461 was granted a Permit to Operate in 2001 via Application 669.

A4. Deleted. Final fitting count was verified for S-1461 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.

A5. VOC/petroleum material other than Crude Oil may be throughput to or stored at S-1461, if all of the following are satisfied:

a. the storage of each material complies with all other conditions applicable this source

b. the storage of each material complies with all other applicable regulatory requirements

c. the Permittee/Owner/Operator creates and maintains District approved records which demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1461 in an amount in excess of the toxin's respective trigger level set forth in Table 2-5-1. (basis: cumulative increase, toxics)

A6. On a monthly basis, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1461, in gallon or barrel units, by name (e.g., Kerosene, Crude Oil, Jet A) in a District approved log for each month and each rolling 12 consecutive month period. The District approved log shall be retained on site for not less than 5 years from date of last entry and be made available to District staff upon request. (basis: cumulative increase, toxics)

S-1462 External Floating Roof Tank; Capacity: 240,000 BBL, Storing: Crude Oil or HDS Gas Oil (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

B1. Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

B2. Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

B3. Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

B4. Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

B5. Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

B6. Deleted. (Source not constructed; Application 699 Authority to Construct cancelled in 2002.)

S-1463 External Floating Roof Tank, Capacity: 240,000 BBL, Storing: Renewable Feedstock

C1.Deleted. S-1463 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.

C2.Deleted. S-1463 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.

C3.Deleted. Compliance with the tank design criteria was verified when S-1463 was granted a Permit to Operate in 2001 via Application 669.

C4.Deleted. Final fitting count for S-1463 was verified in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.

C5.Deleted. S-1463 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.

C6.Deleted. S-1463 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.

C7.The owner/operator of S-1463 shall not store any material other than Renewable Feedstock.

(Basis: Regulation 2-1-403)

S-1464 External Floating Roof Tank, Capacity: 100,000 BBL, Storing: Petroleum Diesel or Renewable Diesel

D1. The owner/operator of S-1464 shall not exceed any of the following throughput limits:

Petroleum/Renewable Diesel – 10,000,000 barrels (420,000,000 gallons) during any consecutive twelve month period

Petroleum/Renewable Diesel – 72,000 barrels (3,024,000 gallons) during any calendar day

(Basis: Cumulative Increase, toxics)

D2. The true vapor pressure of each and all POC/petroleum materials throughput to and/or stored in S-1464 shall be less than or equal to 0.2 psia. (basis: cumulative increase)

D3. Deleted. Final fitting count was verified for S-1464 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.

D4. The owner/operator of S-1464 may store alternate liquid(s) other than the materials specified in Part D1 and/or usages in excess of those specified in Part D1, provided that the owner/operator can demonstrate that all of the following are satisfied:

- a. Total POC and/or NPOC emissions combined from S-1464 do not exceed 921 pounds in any consecutive twelve-month period;
- b. Total POC and/or NPOC emissions combined from S-1464 do not exceed 9.8 pounds per calendar day;
- c. The use of these materials does not increase toxic emissions equal to or above any toxic air contaminant trigger level of Table 2-5-1 in Regulation 2-5;

(Basis: Cumulative Increase; Toxics)

D5. To determine compliance with the above parts, the owner/operator of S-1464 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 and true vapor pressure of each type of liquid stored at this source on a daily and monthly basis.
- b. If a material other than those specified in Part D1 is stored, POC, NPOC, and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part D4, on a daily basis;
- c. Daily and monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

S-1465 External Floating Roof Tank, Capacity: 100,000 BBL, Storing: Petroleum Diesel or Renewable Diesel

E1. The owner/operator of S-1465 shall not exceed the following throughput limits:

Petroleum/Renewable Diesel – 10,000,000 barrels (420,000,000 gallons) during any consecutive twelve month period

Petroleum/Renewable Diesel – 72,000 barrels (3,024,000 gallons) during any calendar day
(Basis: Cumulative Increase, toxics)

E2. Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all POC and/or NPOC petroleum materials throughput to and/or stored in S-1465 is always less than or equal to 0.2 psia. (basis: cumulative increase)

E3. Deleted. Final fitting count was verified for S-1465 in a 2008 audit. Offsets were adjusted in August 2002 via Application 669.

E4. The owner/operator of S-1465 may store alternate liquid(s) other than the materials specified in Part E1 and/or usages in excess of those specified in Part E1, provided that the owner/operator can demonstrate that all of the following are satisfied:

- a. Total POC and/or NPOC emissions combined from S-1465 do not exceed 921 pounds in any consecutive twelve-month period;
- b. Total POC and/or NPOC emissions combined from S-1465 do not exceed 9.8 pounds per calendar day;
- c. The use of these materials does not increase toxic emissions to equal to or above any toxic air contaminant trigger level of Table 2-5-1 in Regulation 2-5.

(Basis: Cumulative Increase; Toxics)

E5. To determine compliance with the above parts, the owner/operator of S-1465 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 and true vapor pressure of each type of liquid stored at this source on a daily and monthly basis.
- b. If a material other than those specified in Part E1 is stored, POC, NPOC, and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part E4, on a daily basis;

c. Daily and monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

Condition 18372

Application #2209 and 16484

Plant #14628

Application 15682 (April, 2007) Initial establishment of NOx box parameters. Delete part 4.

Application 14752 (January 2007) S-927 modification of Part 18.

Application 16888 (April 2008) Modification of S-913

Application 16889 (June 2008) Modification of S-951

Modified by App. 18739 (Nov 2008) Removal of S924 from Parts 27 and 31

Application 19300 (December 2008) Removed S-904 Backup CO Boiler Service

Application 18748 (December 2008) Modification of S-919 Administratively Revised via Application

19647 (March 2009) Consolidation of Bubble Condition 4357 with Condition 8077

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Application 20359 (June 2009) Modification of S-920

Application 21072 (October 2009) Modification of S-912

Application 20259 (February 2010) Modification of S-909

Application 17470 (February 2010) Modification of S-916

Application 21732 (May 2010) Modification of S-919

Administratively Reinstated Source List, Part 3 and Part 27 by Application 21464 (April 2010)

Application 21797 (June 2010) Modification of S-913

Application 21787 (July 2010) Modification of S-926

Application 22149 (Sept 2010) Modification of S-919

Application 22580 (November 2010) Modification of S-920

Application 22582 (November 2010) Modification of S-926

Application 22971 (March 2011) Modification of S-913

Application 23339 (June 2011) Modification of S-920

Application 23871 (December 2011) Modification of S-916

Application 23006 (February 2013) Revised Introduction to remove source details and reference to Application 23194, Removed language that clarified Part 3 firing rates are not NSR rates, Revised Parts 20, 21, 22 and 27 to correct S-972 abatement, Revised Parts 29 and 31 to allow compliance with the 2010 Amendment to Regulation 9, Rule 10, and Revised Parts 32A, 33 and 33A2 to reflect a 60 day allowance to submit Source Test Reports.

Application 25007 (January 2013) Modification of S-913

Application 24921 (March 2013) Modification of S-916

Application 26159 (July 2014) Modification of S-920

Application 26422 (June 2015) Modification of S-920

Administratively changed by Application 29278 (February 2021). Revised Parts 27 and 31A to reflect the NOx CEMs installed on S909, S912, S913, S916, S919, S920, S921 and S926; and revised Part 33 and deleted Parts 29, 30, 31B, 31C and 31D since these parts were superseded by the October 16, 2013 amendment to Regulation 9, Rule 10.

Application 30768 (September 2022). Revised Parts 2, 3, 27, 31 and Deleted Parts 18, 19, 20, 22, due to the shutdown of S-904, S-908, S-909, S-912, S-913, S-915, S-916, S-917, S-921, S-927, S-950, S-951, S-971, S-972, and S-974 as part of Marathon’s Renewable Fuels Project.

Application 30806 (November 2022). Alternate NOx Compliance Plan for utilization of alternate compliance option per Regulation 9-10-308. Revised Parts 2, 3, and 27 due to the shutdown of S-922. Corrected S-926 firing rate in Part 3. Revised Parts 27, 34, and 36, deleted Parts 31, 31A, 32, and 33, and added Parts 37, 38, and 39 for the approval of the Alternate NOx Compliance Plan.

- S-919 No. 2 HDS Depentanizer Reboiler F-19
- S-920 No. 2 HDS Charge Heater F-20
- S-926 No. 2 Reformer Splitter Reboiler F-26
- S-928 HDN Reactor A Heater (F28)
- S-929 HDN Reactor B Heater (F29)
- S-930 HDN Reactor C Heater (F30)
- S-931 Hydrocracker Reactor 1 Heater (F31)
- S-932 Hydrocracker Reactor 2 Heater (F32)
- S-933 Hydrocracker Reactor 3 Heater (F33)
- S-934 Hydrocracker Stabilizer Reboiler (F34)
- S-935 Hydrocracker Splitter Reboiler (F35)
- S-937 Hydrogen Plant Heater (F37)
- S-973 No. 3 HDS Recycle Gas Heater (F55)

1. Deleted. (The fuel meter requirement is redundant with Regulation 9-10-502.2.)
2. The Owner/Operator shall ensure that each of S-919, S-920, and/or S-926 is fired exclusively on natural gas and/or fuel gas. (basis: Regulation 9, Rule10)
3. The Owner/Operator shall ensure that the maximum firing rate of each source listed does not exceed the corresponding maximum firing rate, based on an operating day average (the amount of fuel fired over each 24 hour day divided by 24:

Source (#)	Maximum Firing Rate (MMBtu/hr)	Maximum Firing Rate (MMBtu/yr)
S-919	65	569,400
S-920	63	551,880
S-926	130	1,138,880

(basis: Regulation 9, Rule 10)

4. (Deleted: Specific NOx limits should not have been applied to S-912 and S-926, since they are both regulated under Regulation 9-10-301.)

5. Deleted. Replaced with Part 30.
6. Deleted. Replaced with Part 31.
7. Deleted. Replaced with Part 31.
8. Deleted. Replaced with Part 31.
9. Deleted. Replaced with Part 31.
10. Deleted. Replaced with Part 31.
11. Deleted. S-921 is shutdown via Application 30768.
12. Deleted. NOx CEM installed on S-922.
13. Deleted. Replaced with Part 31.
14. Deleted. Replaced with Part 33.
15. Deleted. Replaced with Part 33.
16. Deleted. Replaced with Part 34.
17. Deleted. Replaced with Part 35.
18. Deleted. S-927 is shutdown via Application 30768.
19. Deleted. S-950 is shutdown via Application 30768.
20. Deleted. S-971 and S-972 are shutdown via Application 30768.
21. Deleted via Application 23006. The portion of Authority to Construct granted via Application 2209 authorizing the abatement of S-972 with A-1433 was never exercised.
22. Deleted. S-927, S-950, and S971 are shutdown via Application 30768.
23. Deleted. (The recordkeeping requirement is redundant with Regulation 9-10-504.)
24. Deleted. (The source test log requirement was effective until January 1, 2005, when the NOx Box recordkeeping requirements became effective.)
25. 25.) Deleted. (The fuel use recordkeeping requirement is redundant with a more stringent Regulation 9-10-504.)
26. Deleted. (S-904 no longer providing backup Coker CO Boiler service so the requirements of Regulation 9-10-304 no longer apply.)
27. The owner/operator of the following sources are subject to the facility-wide daily NOx mass emission limit in Part 37 and CO concentration limits in Regulation 9-10. (Regulation 9-10-303, 305, & 308)

S#	Description	NOx/CO CEMS (Y/N)
S919	No. 2 HDS Heater (F19)	Y/N
S920	No. 2 HDS Heater (F20)	Y/N
S926	No.2 Reformer Splitter Reboiler (F26)	Y/N
S928	HDN Reactor A Heater (F28)	Y/N
S929	HDN Reactor B Heater (F29)	Y/N
S930	HDN Reactor C Heater (F30)	Y/N
S931	Hydrocracker Reactor 1 Heater (F31)	Y/N
S932	Hydrocracker Reactor 2 Heater (F32)	Y/N
S933	Hydrocracker Reactor 3 Heater (F33)	Y/N
S934	Hydrocracker Stabilizer Reboiler (F34)	Y/N
S935	Hydrocracker Splitter Reboiler (F35)	Y/N
S937	Hydrogen Plant Heater (F37)	Y/N
S973	No. 3 HDS Recycle Gas Heater (F55)	Y/N

a. Prior to startup, the owner/operator of S-928, S-929, S-930, S-931, S-932, and S-933 shall properly install, properly maintain, properly calibrate, and properly operate per manufacturer's specification an Air District approved, certified NOx continuous emission monitor (CEMs) to demonstrate compliance with Part 37. The owner/operator of S-928, S-929, S-930, S-931, S-932, and S-933 shall perform daily calibrations, quarterly audit and annual RATA tests in accordance with Appendix B and F. (Basis Regulation 1-522, Regulation 2-2-208 Cumulative Increase)

28. The owner/operator of each source with a maximum firing rate greater than 25 MMBtu/hr listed in Part 27 shall properly install, properly maintain, and properly operate an O2 monitor and recorder. (Regulation 9-10-502)

29. Deleted. Superseded by the October 16, 2013 amendment of Regulation 9, Rule 10, Section 502.1.2.

30. Deleted. The initial NOx Box specifications have been established.

31. Deleted. NOx CEMS installed on S-928, S-929, S-930, S-931, S-932, and S-933. All sources subject to the Alternate NOx Compliance Plan are equipped with a NOx CEMS; therefore, NOx Box ranges are no longer applicable.

a. Deleted. NOx CEMS installed on S-928, S-929, S-930, S-931, S-932, and S-933. All sources subject to the Alternate NOx Compliance Plan are equipped with a NOx CEMS; therefore, NOx Box ranges are no longer applicable.

b. Deleted. Superseded by the October 16, 2013 amendment of Regulation 9, Rule 10, Section 502.1.2.

c. Deleted. Superseded by the October 16, 2013 amendment of Regulation 9, Rule 10, Section 502.1.2.

- d. Deleted. Superseded by the October 16, 2013 amendment of Regulation 9, Rule 10, Section 502.1.2.
32. Deleted. NOx CEMS installed on S-928, S-929, S-930, S-931, S-932, and S-933. All sources subject to the Alternate NOx Compliance Plan are equipped with a NOx CEMS; therefore, NOx Box ranges are no longer applicable.
33. Deleted. NOx CEMS installed on S-928, S-929, S-930, S-931, S-932, and S-933. All sources subject to the Alternate NOx Compliance Plan are equipped with a NOx CEMS; therefore, NOx Box ranges are no longer applicable.
34. For each source listed in Part 27 with a NOx CEM installed that does not have a CO CEM installed, the owner/operator shall conduct semi-annual district approved CO source tests at as-found conditions to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry at 3% oxygen, based on an operating day average). 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. (Regulation 9-10-305, 9-10-502, 1-522)
35. For any source listed in Part 27 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. (Regulation 9-10-502, 1-522)
36. In addition to records required by Regulation 9-10-504, the facility must maintain records of all source tests conducted to demonstrate compliance with Parts 27 and 37. 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. (Recordkeeping, Regulation 9-10-504)
37. Effective December 1, 2022, the owner/operator of all sources listed in Part 27 shall comply with the daily NOx mass emission limit of 834.4 lbs/day through the use of an approved Alternate NOx Compliance Plan (ANCP) at all times, including start-up, shutdown, temporary out of service, and/or in curtailed operation.
(Basis: Regulation 9-10-308)
38. The owner/operator of each source listed in Part 27 shall determine compliance with Part 37 as follows:
- a. Calculate daily NOx emissions from each source using measured fuel gas flow rates and NOx CEM data.
 - b. The daily NOx mass emission rate shall be determined by summing the total emissions from sources listed in Part 27.
- (Basis: Regulation 9-10-308)

39. The owner/operator of all sources listed in Part 27 shall submit quarterly reports of their ANCP activity to the Air District's Engineering Division and Compliance & Enforcement Division no later than 30 days after the close of each calendar quarter.

(Basis: Regulation 9-10-505.2)

Condition 18379

Application #3180

Plant #14628

S-940 Industrial Boiler; #1 Boiler @ 4 Boiler House, Maximum Firing Rate: 150 MMBtu/hr

1. The emission reductions quantified pursuant to banking application #3180 granted for the permanent closure of S-940 shall only be used to offset emission increases occurring at the Avon refinery located at 150 Solano Way in Martinez, California and may be used for no other purpose. (basis: Regulation 2, Rule 4, Section 302.1)

Condition 19197

Application #2298

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010). Deleted Parts 3 and 4.

S-1473 Pressurized Storage Tank; Storing: Ethyl Mercaptan Odorant, Capacity: 1000 gallons abated by A-14 Vapor Recovery System

1. S-1473 shall be abated by A-14 at all times that emissions from S-1473 are not controlled by the ethyl mercaptan delivery vessel's vapor balance system.

(basis: cumulative increase)

2. The total throughput of ethyl mercaptan odorant to S-1473 shall not exceed 3000 gallons during any rolling 12 consecutive month period.

(basis: cumulative increase)

3. Completed. (Final fugitive counts submitted March 10, 2010 with Application 21711).

4. Completed. (Additional Offsets were provided in March 2010 via Application 2298. The project has been permitted for 0.018 tons POC emissions per year)

5. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

6. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

7. In a District approved log, Permittee/Owner/ Operator shall record the amount of each organic liquid material throughput to S-1473 each month and for each rolling 12 consecutive month period, by

material name. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request.
(basis: cumulative increase)

Condition 19199

Permit Application #2508

Permit Application 13803: Clarify conditions to allow owner/operator to bypass A-1106 SCR during shutdown of S-1106 (part H9)

Permit Application 17928: Administratively changed section F to remove S1100 Iso-Octene unit that was never built.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Administratively Changed by Application 21711 (May 2010) Delete Part D2 and E2.

Administratively changed by Application 29278 (February 2021). Revised Parts H12 and H13 to allow 60 days to submit source test reports.

Application 30768 (September 2022). Deleted Parts C5, D1 through D8, G0, G5, G9 and H0 through H15 due to the shutdown of S-802 and S-975 as part of Marathon's Renewable Fuels Project. Revised source description for S-982 in Part E.

Logistical Improvements

A1. Completed. Final fugitive count for the project submitted on 6/7/2004 and offsets were provided.

A2. Completed. Final fugitive count for the project submitted on 6/7/2004 and offsets were provided.

A3. Deleted. (The Authority to Construct requirement to install BACT compliant flanges and connectors was satisfied. Fugitive organic emissions less than 100 ppm is required by 8-18-304.)

A4. Deleted. (The Authority to Construct requirement to install BACT compliant valves was satisfied. Fugitive organic emissions less than 100 ppm is required by 8-18-302.)

A5. The Authority to Construct requirement to install BACT compliant pumps was satisfied. Total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)

A6. Deleted. (The Authority to Construct requirement to install BACT compliant process sample systems was satisfied. Operating requirements for process sample systems are specified in 60 Subpart VV; 60.482-5)

A7. Deleted. (The Authority to Construct requirement to install BACT compliant process sample systems was satisfied. Requirements for process drain emissions are specified Regulation 8, Rule 8.)

A8. Deleted. (The Authority to Construct requirement to install BACT compliant pressure relief valves was satisfied.)

Two New Flare Gas Recovery

Compressors Each with a Maximum

Rated Capacity of 4 MMSCFD

B1. Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.

B2. Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.

B3. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

B4. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

B5. Permittee/Owner/Operator shall ensure that total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)

B6. Deleted. ATC construction requirement completed.

B7. Deleted. ATC construction requirement completed.

B8. Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.

S-802 Fluid Catalytic Cracking Unit (No. 4 Gas Plant) FCCU Naphtha Splitter

C1.Deleted. Final fugitive count for the project submitted on 3/27/2003 and offsets were provided.

C2.Deleted. Final fugitive count for the project submitted on 3/27/2003 and offsets were provided.

C3.Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

C4.Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

C5.Deleted. S-802 is shutdown via Application 30768.

C6.Deleted. ATC construction requirement completed.

C7.Deleted. ATC construction requirement completed.

C8.Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.

S-975 No. 4 Gas Plant Cooling Tower; Marley, 13-24A, with 4 Pumps, Sum Total Maximum Capacity:
4,140,000 Gallons/Hr

- D1. Deleted. S-975 is shutdown via Application 30768.
- D2. Completed (Circulation Rate Test conducted June 2, 2003).
- D3. Deleted. S-975 is shutdown via Application 30768.
- D4. Deleted. S-975 is shutdown via Application 30768.
- D5. Deleted. S-975 is shutdown via Application 30768.
- D5A. Deleted (basis: Startup conditions completed: The value XXXX ppm in condition #5 above shall be set by the District after the District has obtained and reviewed laboratory data generated pursuant to these conditions.
(basis: start-up, BACT)
- D6. Deleted. S-975 is shutdown via Application 30768.
- D7. Deleted. S-975 is shutdown via Application 30768.
- D8. Deleted. S-975 is shutdown via Application 30768.

S-982 Diesel HDO Unit No. 2 (S-1003) Cooling Tower; Capacity: 1,080,000 Gallons Per Hour

- E1. Permittee/Owner/Operator shall ensure that the total cooling tower water recirculation rate at S-982 shall not exceed 1,080,000 gallons per hour or 18,000 gallons per minute. (basis: cumulative increase, offsets, BACT)
- E2. Completed (Circulation Rate Test conducted June 2, 2003).
- E3. The total dissolved solids content of the cooling tower water at S-982 shall not exceed 5000 milligrams per liter. (basis: cumulative increase, offsets)
- E4. At least once each quarter, Permittee shall sample the cooling tower water at S-982 and subject the sample to a District approved laboratory analysis to determine its total dissolved solids content. (basis: cumulative increase, offsets)
- E5. The POC content of the cooling tower water at S-982 shall not exceed 100 ppm gasoline range organics (EPA Method 8015) and 100 ppm diesel range organics (EPA Method 8015) as measured at the cooling water return line or at the basin or at any other location at S-982, as determined by the results of EPA laboratory method 8015. (basis: BACT)
- E6. Deleted (basis: Startup conditions completed: The value XXXX ppm in condition #5 above shall be set by the District after the District has obtained and reviewed laboratory data generated pursuant to these conditions. (basis: start-up, BACT))

E7. Within 45 days after the date that the change of conditions authorization letter is issued by the District for S-982 pursuant to application #2508, Permittee/Owner/ Operator shall sample the cooling tower water at S-982 at the cooling water return line twice each WEEK and at the basin once each MONTH. After twenty six (26) weeks of District approved sampling and sample analysis data, Permittee/Owner/ Operator shall sample the cooling tower water at S-982 at the cooling water return line ONCE each WEEK and Permittee/Owner/Operator shall ensure that each sample is subjected to analysis by EPA laboratory method 8015. The results of the laboratory analysis shall disclose the organic content of the S-982 cooling tower water. Permittee/Owner/Operator shall ensure that the results of the each laboratory analysis along with the laboratory report of each analysis shall be available on site for inspection by District staff not later than two weeks (14 calendar days) after the date on which the sample was taken from S-982.

(basis: BACT)

E8. Permittee/Owner/Operator shall ensure that there is a District approved sample point at the cooling tower water return line for S-982 where cooling tower water in route to S-982 can be sampled.

(basis: BACT)

E9. In a District approved log, Permittee/Owner/Operator shall record each date and location from which each sample of cooling tower was taken and the purpose of the sample. Permittee/Owner/Operator shall record the results of the laboratory analyses conducted pursuant to the requirements of these conditions along with copies of the laboratory results that disclose the date of the sampling, the location from which the sample was taken, the organic content of the cooling tower water determined by the laboratory method, the total dissolved solids content of the sample, the date of the analysis and name and address of the laboratory that conducted the analysis. The District approved log shall be retained on site for at least 5 years from last entry and be made available to the District staff upon request. (basis: cumulative increase, offsets, BACT)

S-1100 Iso-Octene Unit, Maximum Production Capacity: 3000 BPD (1,095,000 BPY)

F0. Deleted. (S-1100 Iso-Octene Unit was not built)

F1. Deleted. (S-1100 Iso-Octene Unit was not built)

F2. Deleted. (S-1100 Iso-Octene Unit was not built)

F3. Deleted. (S-1100 Iso-Octene Unit was not built)

F4. Deleted. (S-1100 Iso-Octene Unit was not built)

F5. Deleted. (S-1100 Iso-Octene Unit was not built)

F6. Deleted. (S-1100 Iso-Octene Unit was not built)

F7. Deleted. (S-1100 Iso-Octene Unit was not built)

F8. Deleted. (S-1100 Iso-Octene Unit was not built)

F9. Deleted. (S-1100 Iso-Octene Unit was not built)

S-1105 No. 4 Hydrodesulfurization Unit; Maximum Capacity: 40,080 BPD (14,629,200 BPY)

G0. Permittee/Owner/Operator shall ensure that the total throughput of hydrocarbon material/feed material to S-1105 does not exceed 40,080 barrels during each calendar day. (basis: Regulation 2-2-419)

G1. Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.

G2. Completed. Final fugitive count for the project submitted prior to issuance of PTO and offsets were provided.

G3. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

G4. Deleted. ATC construction requirement completed. Emissions limit and/or inspection redundant with Regulation 8-18.

G5. Permittee/Owner/Operator shall ensure that total organic compound emissions from each pump shall not exceed 100 ppm, subject to the leak repair provisions of Regulation 8, Rule 18. (basis: BACT, Reg. 8-18)

G6. Deleted. ATC construction requirement completed.

G7. Deleted. ATC construction requirement completed.

G8. Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.

G9. In a District approved log, Permittee/Owner/Operator shall record the amount of feed material throughput to S-1105 each day, each month, and for each 12 consecutive month period. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request. (basis: cumulative increase)

S-1106 Furnace; FU72, No. 4 Hydrodesulfurization Reactor Feed Heater, Natural Gas Fired, Maximum Firing Rate (HHV): 30 MMBtu/hr abated by A-1106 Selective Catalytic Reduction System

H0. Permittee/Owner/Operator shall ensure that the maximum fuel firing rate at S-1106 does not exceed 30 MMBtu/hr averaged over each calendar day by dividing the fuel use rate during each day by 24. (basis: cumulative increase)

H1. Permittee/Owner/Operator shall ensure that no fuel other than natural gas is fired at S-1106. (basis: cumulative increase, toxics)

H2. Permittee/Owner/Operator shall ensure that S-1106 is not be operated unless it is equipped with a District approved fuel flow meter that measures the volume of fuel throughput to S-1106 in units of standard cubic feet.

(basis: cumulative increase)

H3. Permittee/Owner/Operator shall ensure that the total fuel use at S-1106 does not exceed 225.257 million standard cubic feet of natural gas during any rolling 12 consecutive month period.

(basis: cumulative increase, toxics, offsets)

H4. Permittee/Owner/Operator shall ensure that NO_x emissions from S-1106 do not exceed 10 ppmv, dry, at 3% oxygen, based on a three hour average, after abatement at A-1106. (basis: BACT, cumulative increase, offsets)

H5. Permittee/Owner/Operator shall ensure that CO emissions from S-1106 do not exceed 50 ppmv, dry, at 3% oxygen, based on a three hour average.

(basis: BACT, cumulative increase, offsets)

H6. Permittee/Owner/Operator shall ensure that POC emissions from S-1106 do not exceed 0.619 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).

(basis: cumulative increase, offsets)

H7. Permittee/Owner/Operator shall ensure that PM-10 emissions from S-1106 do not exceed 0.856 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).

(basis: cumulative increase, offsets)

H8. Permittee/Owner/Operator shall ensure that SO₂ emissions from S-1106 shall not exceed 0.068 ton per rolling consecutive 12 month period (or the equivalent emission rate prorated to the time period during which emissions are measured/calculated).

(basis: cumulative increase, BACT, offsets)

H9. Permittee/Owner/Operator shall ensure that S-1106 is abated by A-1106 at all times that a fuel is fired at S-1106 except for not more than 144 hours during any rolling 12 consecutive month period and during shutdown as defined by Regulation 9-10-218. The 144 hours is for start-up of S-1106. At all times other than the 144 hours per 12 consecutive month period and during shutdown as defined by Regulation 9-10-218, while a fuel is fired at S-1106, S-1106 shall be abated by A-1106 and there shall be ammonia injection at A-1106.

(basis: BACT)

H10. Permittee/Owner/Operator shall ensure that ammonia slip from A-1106 does not exceed 20 ppmv, dry, at 3% oxygen averaged over any 3 hour period. (basis: toxics)

H11. Notwithstanding any provision of District regulations allowing for the malfunction of or lack of operation of the CEM, Permittee/Owner/Operator shall not operate S-1106 without a District approved continuous emissions monitoring device that continuously measures and continuously records the concentration of nitrogen oxides, in ppmv units, in the combustion exhaust from S-1106 corrected to 3

ppmv oxygen, dry; and the device shall continuously measure and continuously record the oxygen concentration in the combustion exhaust from S-1106. (basis: cumulative increase, BACT, offsets)

H12. Once each calendar year Permittee/Owner/Operator shall ensure that a District approved source test is conducted that measures CO emissions from S-1106. The first CO source test for S-1106 shall be conducted within 60 days after the first date that fuel is first fired at S-1106. The District approved source test shall measure the emission rate of CO from S-1106 and the amount of oxygen in the S-1106 exhaust. Because of this condition S-1106 does not need a CEM for CO.

Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test, two identical copies of the results of the source test, each referencing permit application #2508, S-1106, and plant #14628 are received by the District and that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division. (basis: start-up, offsets, BACT, cumulative increase, toxics)

H13. Permittee/Owner/Operator shall ensure that a District approved source test is conducted that measures emissions from S-1106 and that the source test for S-1106 is conducted within 60 days after the first date that fuel is first fired at S-1106. The District approved source test shall measure the emission rate of NO_x, CO, POC, SO₂, ammonia, and PM-10 from S-1106 while it is operated at a fuel feed rate of 22857 SCF of natural gas per hour or more. For NO_x, CO, and ammonia, the measurement shall be based on a three hour average. If the fuel firing rate of S-1106 during the testing is less than 22857 SCF natural gas per hour, then Permittee/Owner/Operator shall conduct a subsequent District approved source test at S-1106 every twelve months thereafter, until a District approved source test is completed while S-1106 is fired at 22857 SCF of natural gas per hour or more during the entire test period.

Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test, two identical copies of the results of the source test, each referencing permit application #2508, S-1106, and plant #14628 are received by the District and that one copy is addressed to the District's Source Test Manager, and that the other copy is addressed the District's Engineering Division.

(basis: start-up, offsets, BACT, cumulative increase, toxics)

H14. In a District approved log, Permittee/Owner/Operator shall record, for S-1106, the amount of each fuel fired in units of standard cubic feet, the concentration of nitrogen oxides in the exhaust from S-1106 in ppmv corrected to 3% oxygen, the oxygen content in the combustion exhaust from S-1106, each time period during which S-1106 is operated without abatement by A-1106 and each time period during which S-1106 is operated without ammonia injection at A-1106. The District approved log shall be retained on site for at least 5 years from date of last entry and shall be made available to the District staff upon request. (basis: cumulative increase, offsets)

H15. If, based on District approved source test results, emissions from S-1106 exceed permitted and/or offset emission levels, Permittee/Owner/Operator shall provide additional District approved emission reduction credits to the District in the amount and of the type(s) determined by the District to be due, to offset the emissions that are in excess of permitted and/or offset emission levels. (basis: offsets)

Condition 19528

Modified by App 18739 (Nov 2008) Removal of S924 from Part 6

Administratively Modified by Application 19326 (Feb2009), Removed Part 2 and 2A

Administratively changed by Application 19419 (June 2009). Updated to remove parts 7 and 7A redundant with District regulations.

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources

Administratively Revised by Application 18261 Title V Renewal. Added Parts 20 and 20A for S-1411 SAP CAM.

Administratively Changed by Application 21711 (May 2010). Deleted Parts 8/8A. Deleted S1416 from Part 10/10A. Renumbered Part 11C.

Administratively Changed by Application 23232 (April 2012). Added 40 CFR 64 CAM requirements for S963 Gas Turbine.

Revised by Application 27030 (November 2015). Removal of Part 14a. A-9 was demolished.

Administratively Changed by Application 27791 (October 2016). Corrected Part 21, 40 CFR 64 CAM requirements for S963 Gas Turbine.

Administratively Changed by Application 28445 (September 2017). Removed Parts 19, 21, 22 and 23 for S-963.

Application 30768 (September 2022). Revised Parts 4, 7, 7A, 8, 8A, 15 and deleted Parts 9, 9A, 10, 10A, 13, 15, 20 due to the shutdown of S-99, S-909, S-912, S-913, S-915, S-916, S-921, S-1401, S-1405, S-1411, S-1415 as part of Marathon's Renewable Fuels Project. Administratively removed Part 14 for S-810 and S-821, which were previously shutdown. Added note to Parts 3 and 3A due to the shutdown of S-901.

1. Deleted. (Redundant with Title V Standard Conditions I.J.1 and I.J.2.)
2. Deleted. [The source test requirements in Regulation 8-44-601 are more stringent.]
- 2A. Deleted. [Part 2 source test requirements replaced by Regulation 8-44-601.]
3. Deleted. (Source Test not required. S-901 now has a CO CEM.) S-901 is shutdown via Application 30768.
- 3A. Deleted. (Source Test not required. S-901 now has a CO CEM.) S-901 is shutdown via Application 30768.
4. The owner/operator of S-919 and S-920 shall ensure that not less frequently than twice each calendar year a District approved source test is conducted for each source measuring its NOx and CO emission rate using a District approved source test method and that each test is conducted in compliance with the District's Manual of Procedures.
(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)
- 4A. Permittee/Owner/Operator shall ensure that within 60 days of the date of completion of the (each) District approved source test required by condition 19528 part 4, two identical copies of the results of the source test along with supporting documentation, each referencing the subject source number, condition 19528 part 4 and part 4A, and plant # B2758 are received by the District and that both copies are addressed to the District's Engineering Division.

(basis: Regulation 2-1-403; Regulation 9-10, Regulation 2-6-503)

- 5. Deleted. (Sources either have a CEM or the Source Tests requirements are included in Condition 18372, Parts 33A2 or 34.)
- 5A. Deleted. (Sources either have a CEM or the Source Tests requirements are included in Condition 18372, Parts 33A2 or 34.)
- 6. Deleted. (Source Test Requirements now included in Condition 18372, Part 33A1.)
- 6A. Deleted. (Source Test Requirements now included in Condition 18372, Part 33A1.)
- 7. Deleted. (Monitoring requirements for S-952, S-953, and S-954 are required quarterly per Regulation 9-8-503)
- 7A. Deleted. (Monitoring requirements for S-952, S-953, and S-954 and S-960 are required quarterly per Regulation 9-8-503)
- 8. Deleted. Sources S-955 through S-960 are shutdown via Application 30768.
- 8A. Deleted. Sources S-955 through S-960 are shutdown via Application 30768.
- 9. Deleted. S-1401 is shutdown via Application 30768.
- 9A. Deleted. S-1401 is shutdown via Application 30768.
- 10. Deleted. S-1415 is shutdown via Application 30768.
- 10A. Deleted. S-1415 is shutdown via Application 30768.

Conditions for monitoring smoking flares (S-854, S-944, S-945, S-992, S-1012, and S-1517):

- 11. Deleted. (See Discussion in Rev. 3 Statement of Basis.)
- 11A. Deleted. (See Discussion in Rev. 3 Statement of Basis.)
- 11B. For the purposes of these conditions, a flaring event is defined as a flow rate of vent gas flared in any consecutive 15 minutes period that continuously exceeds 330 standard cubic feet per minute (scfm). If during a flaring event, the vent gas flow rate drops below 330 scfm and then increases above 330 scfm within 30 minutes, that shall still be considered a single flaring event, rather than two separate events. For each flaring event during daylight hours (between sunrise and sunset), the owner/operator shall inspect the flare within 15 minutes of determining the flaring event, and within 30 minutes of the last inspection thereafter, using video monitoring or visible inspection following the procedure described in Part 11C of this condition.

(basis: Regulation 2-6-409.2)

- 11C. The owner/operator shall use the following procedure for the initial inspection and each 30-minute inspection of a flaring event.

- a. If the owner/operator can determine that there are no visible emissions using video monitoring, then no further monitoring is necessary for that particular inspection.
- b. If the owner/operator cannot determine that there are no visible emissions using video monitoring, the owner/operator shall conduct a visual inspection outdoors using either:
 - i. EPA Reference Method 9; or
 - ii. Survey the flare by selecting a position that enables a clear view of the flare at least 15 feet, but not more than 0.25 miles, from the emission source, where the sun is not directly in the observer's eyes.
- c. If a visible emission is observed, the owner/operator shall continue to monitor the flare for at least 3 minutes, or until there are no visible emissions, whichever is shorter.
- d. The owner/operator shall repeat the inspection procedure for the duration of the flaring event, or until a violation is documented in accordance with Part 11D. After a violation is documented, no further inspections are required until the beginning of a new calendar day. (basis: Regulation 6-1-301, 2-1-403)

11D. The owner/operator shall comply with one of the following requirements if visual inspection is used:

If EPA Method 9 is used, the owner/operator shall comply with Regulation 6-1-301 when operating the flare.

If the procedure of 4.b.ii is used, the owner/operator shall not operate a flare that has visible emissions for three consecutive minutes.

(basis: Regulation 2-6-403)

11E. The owner/operator shall keep records of all flaring events, as defined in Part 11B. The owner/operator shall include in the records the name of the person performing the visible emissions check, whether video monitoring or visual inspection (EPA Method 9 or visual inspection procedure of Part 11C of this condition) was used, the results of each inspection, and whether any violation of this condition (using visual inspection procedure in Part 11C of this condition) or Regulation 6-1-301 occurred (using EPA Method 9). (basis: Regulation 2-6-501; 2-6-409.2)

12. This condition applies to each organic liquid storage tank that is exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to Permittee/Owner/Operator's assertion or belief that the tank's contents comply with 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). Whenever the type of organic liquid in the tank is changed, the Permittee/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 Permittee/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

Permittee/Owner/Operator may use Table 1 to determine the material's true vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), Permittee/Owner/Operator shall report non-compliance in accordance with Standard Condition I.F and shall submit a complete permit application to the District to obtain a new Permit to Operate for the tank not more than 180 days from discovery that the true vapor pressure of the material in the tank is greater than 25.8 mm Hg (0.5 psia). This monitoring requirement shall take effect on April 1, 2004. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)

12.1.Deleted (basis: Initial testing/data collection completed).

12A.When laboratory testing is conducted to determine the true vapor pressure of the material stored in a tank subject to condition 19528 part 12, in a District-approved log, Permittee/Owner/Operator shall record the results of the testing, the laboratory method used, along with the identity of tank by District assigned source number where the material was sampled/stored. Permittee shall retain the log for not less than five years from the date of the recording in the log.

Permittee/Owner/Operator shall ensure that the log is made available to District staff upon request. (basis: Regulation 8-5, Regulation 2-1-403, Regulation 2-6-503)

13. Deleted. A-4 and S-99 are shutdown via Application 30768.

14. Deleted. S-810 and S-821 are shutdown.

14A. Deleted. (A-9 Precipitator removed from service).

15. Deleted. A-1420 was removed from service in 2006 when S-1405 became abated by S-1411 or S-1401.) Sources S-1401, S-1405, and S-1411 are shutdown via Application 30768.

16. Deleted. (Moved to Title V Standard Condition I.J.3.)

17. Deleted. (63 Subpart UUU requirements have been completed.)

18. Deleted. (63 Subpart UUU requirements have been completed.)

19. Deleted. (S-963 removed from service)

20. Deleted. S-1411 is shutdown via Application 30768.

20A. Deleted. S-1411 is shutdown via Application 30768.

21. Deleted. (S-963 removed from service)

22. Deleted. (S-963 removed from service)

23. Deleted. (S-963 removed from service)

Condition 19762

Application 30768 (September 2022). Deleted Parts B1, B3, B4, due to the shutdown of S-1484 as part of Marathon's Renewable Fuels Project.

S-775 Internal Floating Roof Tank (TK A-849);

Capacity:109,000 BBL, Storing: Gasoline

Application 14580, modified by Application 2720, modified by Application 4579

Administratively Changed via Application 17537, July 2008

A1. Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-775 does not exceed 11,336,000 barrels during any 12 consecutive month period. (basis: cumulative increase, toxics, offsets)

A2. Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-775 is always less than or equal to 11 psia. (basis: cumulative increase, toxics, offsets)

A3. Deleted. Compliance with the tank design criteria was verified when S-775 was granted a Permit to Operate in 2001 via Application 4579.

A4. Deleted. Final fitting count was verified for S-775 in a 2008 audit for Application 4579.

A5. VOC/petroleum material other than Gasoline may be throughput to or stored at S-775, if in doing so, Permittee/Owner/Operator complies with each and all of the following:

a. the Permittee/Owner/Operator shall ensure that the storage of each material complies with all other conditions applicable this source.

b. the Permittee/Owner/Operator shall ensure the storage of each material complies with all other applicable regulatory requirements applicable to this source.

c. the Permittee/Owner/Operator shall ensure that it creates and maintains accurate and factual District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-775 in an amount in excess of the toxin's respective trigger emission level set forth in Table 2-5-1.

(basis: cumulative increase, toxics, offset)

A6. On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-775, in gallon or barrel units, by name (e.g., naphtha, Jet A, gasoline) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

B1. Deleted. S-927 is shutdown via Application 30768.

B2. Deleted. Compliance with the vessel vapor tight design criteria was verified when S-1484 was granted a Permit to Operate in 2002 via Application 4579.

B3. Deleted. S-927 is shutdown via Application 30768.

B4. Deleted. S-927 is shutdown via Application 30768.

Condition 20099

Application 6201 (November 2002), Condition updated after Start-up (December 2004).

S-532 Oil Water Separator; Tank 532, modified to operate as an Oil Water Separator; Volume: 630K Gallons, Capacity: 286 BPH abated by A-14 Vapor Recovery System

Administratively Changed via Application 17537, July 2008

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

Administratively changed by Application 29278 (February 2021). Revised Parts 5 and 6 to allow 60 days to submit source test reports.

Application 32029 (June 2023). Revised Parts 4 and 6 to updated fuel gas users for vapor recovery system as part of Marathon's Renewable Fuels Project (Application 30768). Administratively deleted Part 5.

1. The owner/operator shall ensure that the total throughput of all VOC/petroleum materials to S-532 does not exceed 2,505,360 barrels during any 12 consecutive month period. (basis: cumulative increase, toxics, BACT, offsets)
2. Deleted. Compliance with the tank vapor tight design criteria was verified when S-532 was granted a Permit to Operate in 2004 via Application 6201.
3. Notwithstanding any provision of District regulations allowing for the malfunction of A-14 due to a valid breakdown at No. 1 Gas Plant vapor recovery compressor(s), the owner/operator shall ensure that S-532 (excluding the pressure vacuum relief valve vent), including the pressure vent at S-532, is abated by A-14 at all times that S-532 is operated and at all times that S-532 contains VOC/petroleum materials. basis: BACT, Regulation 8-8, cumulative increase, toxics, offsets)
4. The owner/operator shall ensure that VOC/POC emissions from S-532 that are ducted to A-14 are abated with a destruction efficiency of at least 98 percent, by weight, as measured across the combustion device(s) burning (the vapors from the) 100 Pound Fuel Gas system. (basis: BACT)
5. Deleted. Start up testing completed.
- 5A. Deleted. (S-991 was taken out of service in 1993). (basis: BACT)
6. To determine compliance with part 4, the owner/operator shall conduct a District approved source test at each of the following sources every 5 years in the year prior to the Title V Permit Renewal.

S-919 No. 2 HDS Depent Reboiler (F19)

S-920 No. 2 HDS Charge Heater (F20)

S-928 HDN Reactor A Heater (F28)

S-929 HDN Reactor B Heater (F29)

S-930 HDN Reactor C Heater (F30)

S-931 Hydrocracker Reactor 1 Heater (F31)

S-932 Hydrocracker Reactor 2 Heater (F32)
S-933 Hydrocracker Reactor 3 Heater (F33)
S-934 Hydrocracker Stabilizer Reboiler (F34)
S-937 Hydrogen Plant Heater (F37)
S-973 No. 3 HDS Recycle Gas Heater (F55), Abated by A-31 SCR
S-1511 Hot Oil Heater #1 (F78), Abated by A-1511 SCR
S-1512 Hot Oil Heater #2 (F79), Abated by A-1512 SCR
A-1584 Trailer Mounted Combustor, 42.3 MMBtu/hr, John Zink, PECS Unit

For each source, the owner/operator must measure the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the stack temperature
- the destruction efficiency of POC as measured across the combustion device

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Division within 60 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets, Regulation 1-238)

7. During periods of preventative maintenance on A-14 Vapor Recovery System not to exceed 36 hours per rolling consecutive 12 month period, the owner/operator shall ensure that there is no liquid flow into S-532 and that under no circumstances shall the preventative maintenance begin prior to 6:00 PM PST. During the preventative maintenance on A-14 Vapor Recovery System S-532 does not need to be abated by A-14.

(basis: BACT)

8. On a monthly basis, in a District approved log, the owner/operator shall record the throughput of liquid material throughput to S-532, in gallon or barrel units, for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

9. On a monthly basis, in a District approved log, the owner/operator shall record the time, date, duration, and reason for each instance during which S-532 is not abated by A-14. The owner/operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is made available to District staff upon request. (basis: cumulative increase, toxics, offsets)

10. Deleted (S-46 TK046 has been taken out of service)

Condition 20520

S-1485 Internal Floating Roof Tank; Tank A-870, Capacity: 130,000 BBL, Storing: Gasoline Blending Components

Administratively Changed via Application 17537, July 2008

1. Permittee/Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-1485 does not exceed 11,000,000 barrels during every 12 consecutive month period. (basis: cumulative increase, toxics, offsets)
2. Permittee/Owner/Operator shall ensure that the true vapor pressure of each and all VOC/petroleum materials throughput to and/or stored in S-1485 is always less than or equal to 11 psia. (basis: cumulative increase, toxics, offsets)
3. Deleted. Compliance with the tank design criteria was verified when S-1485 was granted a Permit to Operate in 2004 via Application 6674.
4. Deleted. Final fitting count was provided and offsets were adjusted in December 2004 via Application 6674.
5. Permittee/Owner/Operator shall ensure that no VOC/petroleum material other than heavy cracked naphtha, cat cracked heavy naphtha, heavy naphtha reformate, heavy catalytic reformed naphtha, medium reformate fractionator bottoms, stabilized reformate, FCC gasoline, and/or FCC Merox product is throughput to or stored at S-1485, unless Permittee/Owner/Operator complies with each and all of the following:
 - a. the Permittee/Owner/Operator shall ensure that the storage of each material complies with all other conditions applicable this source.
 - b. the Permittee/Owner/Operator shall ensure the storage of each material complies with all other applicable regulatory requirements applicable to this source.
 - c. the Permittee/Owner/Operator shall ensure that it creates and maintains accurate and factual District approved records that demonstrate to the District's satisfaction that no toxin listed in Table 2-5-1 is emitted from S-1485 in an amount in excess of the toxin's respective trigger emission level set forth in Table 2-5-1.(basis: cumulative increase, toxics, offset)
6. On a monthly basis, in a District approved log, the Permittee/Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-1485, in gallon or barrel units, by the material's MSDS name true name as disclosed on the material's MSDS (e.g., cat cracked heavy naphtha, medium reformate fractionator bottoms, stabilized reformate, FCC gasoline) for each month and for each rolling 12 consecutive month period. The Permittee/Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.

(basis: cumulative increase, toxics, offsets)

Condition 20672

Application #6945; Amended by Application #7776

Administratively changed by Application 19419 (June 2009). Updated to remove parts superseded by standard conditions and parts redundant with District regulations.

S-1487 Tank 38 Fire-Water Pump Engine; Diesel Fired, 420 BHP, Caterpillar 3406DBITA; Maximum Firing Rate: 2.79 MMBtu/hr

- A1. Deleted. (basis: Superseded by Condition 22851, Part 1)
- A2. Deleted (basis: "Emergency Conditions" is defined in Regulation 9-8-231.5)
- A3. Deleted (basis: ("Reliability-related activities" is defined in Regulation 9-8-232)
- A4. Deleted. (basis: Hour meter requirement redundant with Regulation 9-8-530.
- A5. Permittee/Owner/Operator shall ensure that S-1487 is capable of operation with NOx emissions less than or equal to 9.65 grams/bhp-hr.
(basis: BACT)
- A6. Permittee/Owner/Operator shall ensure that S-1487 is capable of operation with CO emissions less than or equal to 1.71 grams/bhp-hr. (basis: BACT)
- A7. Deleted (basis: Recordkeeping requirements redundant with Regulation 9-8-530. Record retention requirement redundant with Regulation 2-6-501.
- A8. At S-1487, Permittee/Owner/Operator shall fire no fuel other than CARB Ultra Low Sulfur diesel fuel with a maximum sulfur content not to exceed 15 ppmw.
(basis: BACT, cumulative increase)
- A9. Startup Condition Deleted (basis: BACT, cumulative increase, start-up). (Deletion basis: Startup source tests completed and verified by the District).

S-1488 Canal Fire-Water Pump Engine; Diesel Fired, 538 BHP, Caterpillar 3412T; Maximum Firing Rate: 3.5 MMBtu/hr

- B1. Deleted (basis: Superseded by Condition 22851, Part 1)
- B2. Deleted ("Emergency Conditions" is defined in Regulation 9-8-231.5)
- B3. Deleted (basis: "Reliability-related activities" is defined in Regulation 9-8-232)
- B4. Deleted (basis: Hour meter requirement redundant with Regulation 9-8-530)
- B5. Permittee/Owner/Operator shall only operate S-1488 at a brake specific NOx emission rate less than or equal to 8.0 grams/bhp-hr.

(basis: BACT)

B6. Permittee/Owner/Operator shall only operate S-1488 at a brake specific CO emission rate less than or equal to 1.15 grams/bhp-hr.

(basis: BACT)

B7. Permittee/Owner/Operator shall only operate S-1488 at a brake specific PM-10 emission rate less than or equal to 0.22 grams/bhp-hr.

(basis: cumulative increase, offsets)

B8. Deleted (basis: Recordkeeping requirements redundant with Regulation 9-8-530. Record retention requirement redundant with Regulation 2-6-501.

B9. At S-1488, Permittee/Owner/Operator shall fire no fuel other than CARB Ultra Low Sulfur diesel fuel with a maximum sulfur content not to exceed 15 ppmw.

(basis: BACT, cumulative increase)

B10. Startup Condition Deleted (basis: BACT, cumulative increase, start-up) (Deletion basis: Startup source tests completed and verified by the District)

Condition 20923

Application #7768

S-134 Fixed Cone Roof Tank; Tank A-134,

Capacity: 651,000 Gallons,

Storing: Recovered Oil

abated by A-14 Vapor Recovery System

1. The Owner/Operator shall ensure that the total throughput of all VOC/petroleum materials to S-134 does not exceed 700,000 barrels during every 12 consecutive month period.

(basis: cumulative increase, toxics, offsets)

2. The Owner/Operator shall ensure that no VOC/petroleum material other than recovered oil/slop oil is throughput to or stored in S-134.

(basis: cumulative increase, offsets)

3. The Owner/Operator shall ensure that S-134 is abated by A-14 Vapor Recovery System at all times that VOC/petroleum material is throughput to or stored/contained in S-134.

(basis: BACT, Regulation 8-5, cumulative increase, toxics, NSPS, Regulation 10 Subpart Kb, offsets)

4. On a monthly basis, in a District approved log, the Owner/Operator shall record the throughput of each VOC/petroleum material throughput to S-134, in gallon or barrel units, by the material's name as disclosed on the MSDS for the material (e.g., slop oil/recovered oil) for each month and for each rolling 12 consecutive month period. The Owner/Operator shall ensure that the District approved log is retained on site for not less than 5 years from date of last entry, and that it is be made available to District staff upon request.

(basis: cumulative increase, toxics, offsets)

Condition 21053

Tesoro Refining and Marketing Company
150 Solano Way
Martinez, CA 94533

Application 17928 (October 2008) Removed demolished sources S317, S324, S431, S457, S46, S21, and S991.

Application 19328/19329 (June 2009) Removal of S700 from Part 6

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

Administratively changed by Application 29278 (February 2021). Revised Parts 3 and 7 to allow 60 days to submit source test reports.

Application 30768 (September 2022). Deleted Part 2 due to the shutdown of S1401, S1404, and S1411 as part of Marathon's Renewable Fuels Project. Removed S-432 from Part 6 as S-432 is repurposed to function as a moving bed biofilm reactor, i.e., no longer a storage tank (See S-2013). Updated fuel gas users in Parts 6 and 7. Removed S-323 from this permit condition as conditions refer to Permit Condition 13605. Revised Part 7 due to the shutdown of S-908, S-909, and S-912.

Administratively removed S318, S367, and S513 from Part 6 as sources are shut down.

1. Deleted. (See discussion of Compliance with Regulation 9-1-313.2 in the Revision 2 Statement of Basis).
2. Deleted. S1401, S1404, and S1411 are shutdown via Application 30768.
3. Deleted. Duplicate with Permit Condition 13605, Part 3.
4. To allow sufficient time to prepare test plans, train employees, and install any necessary equipment, the monitoring requirements are effective April 1, 2004.
5. Deleted. (See discussion of Compliance with Regulation 9-1-313.2 in the Revision 2 Statement of Basis).
6. The owner/operator of the listed tanks shall abate them by the A14 Vapor Recovery System at all times of operation, except as allowed in Regulation 8-5. A14 Vapor Recovery System compresses the vapors to be mixed with the fuel gas system for combustion in units specified in Part 7. The owner/operator will meet a POC destruction efficiency of at least 95% by weight.

Tanks: S134, S137 (basis: 60.113b(c)(2))

Tanks: S603, (basis: 63.646(a), 63.120(d)(5))

7. The owner/operator shall conduct a District approved source test at each of the following sources (initially per permit condition #27604 part 5) and at least once every 5 years in the year prior to the Title V Permit Renewal.:

S-919 No. 2 HDS Depent Reboiler (F19)
S-920 No. 2 HDS Charge Heater (F20)
S-928 HDN Reactor A Heater (F28)
S-929 HDN Reactor B Heater (F29)
S-930 HDN Reactor C Heater (F30)
S-931 Hydrocracker Reactor 1 Heater (F31)
S-932 Hydrocracker Reactor 2 Heater (F32)
S-933 Hydrocracker Reactor 3 Heater (F33)
S-934 Hydrocracker Stabilizer Reboiler (F34)
S-937 Hydrogen Plant Heater (F37)
S-973 No. 3 HDS Recycle Gas Heater (F55), Abated by A-31 SCR
S-1511 Hot Oil Heater #1 (F78), Abated by A-1511 SCR
S-1512 Hot Oil Heater #2 (F79), Abated by A-1512 SCR
A-1584 Trailer Mounted Combustor, 42.3 MMBtu/hr, John Zink, PECS Unit

to measure for each source each of the following:

- the fuel feed rate in pounds/hr
- the POC emission rate at the stack
- the flue gas flow rate in SCFM at the stack
- the oxygen content of the stack flue gas
- the destruction efficiency of POC/VOC as measured across the Furnace/combustion device

The owner/operator shall ensure that two copies of the results of the source testing along with related calculations and relevant process data are received by the District's Engineering Division not more than 60 days following the date of the source test.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-2-302 Offsets, Regulation 1-238 Parametric Monitor)

Condition 21393

Application #9129 (April 2004).

Administratively Changed via Application 17537, July 2008

S-871 Tank A-871, External Floating Roof, Capacity: 13,146K gallons, Crude and Low Sulfur Vacuum Gas Oil Storage

1. The total throughput at tank S-871 shall not exceed 20,000,000 barrels in any consecutive 12-month period.
(basis: Cumulative Increase, Toxic Risk Screen, BACT)
2. Materials stored in S-871 shall be limited to the following:
 - a. Crude or low sulfur vacuum gas oil with a true vapor pressure less than 11 psia
 - b. A liquid other than those specified above may be stored in S-871, provided that both of the following criteria are met:

- i.true vapor pressure must be less than 11 psia
 - ii.POC emissions, based on the maximum throughput in part 1, do not exceed 15,904 pounds per year; and
 - iii.toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.
- (basis: Cumulative Increase, Toxic Risk Screen)

3. Deleted. Final fitting count was provided and offsets were adjusted in January 2007 via Application 9129.

4. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.
- b. For external floating roof tanks, the owner/operator who replaces all or part of a primary or secondary seal shall keep an accurate record of the length of seal replaced and the date(s) on which replacement occurred. These maintenance records shall be kept for at least 10 years.

All records shall be recorded in a District-approved log 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, Regulation 1-441, Regulation 8-5-501)

Condition 21535

Application #9160 (June 15, 2004)

S-1491 Fixed Volume Portable Tank #3; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

1. The total throughput at tank S-1491 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

2. The owner/operator shall abate S-1491 with A-1001 and A-1002 Carbon Canisters in series at all times. The carbon canisters (200 lb/each activated carbon) shall have an overall collection and adsorption efficiency of at least 95% by weight POC.

(basis: Cumulative Increase, Toxic Risk Screen)

3. Materials stored in S-1491 shall be limited to the following:

- a. Crude or low sulfur vacuum gas oil with a true vapor pressure less than 11 psia
- b. A liquid other than those specified above may be stored in S-1491, provided that both of the following criteria are met:
 - i. Slop Oil and water mixture with true vapor pressure must be less than 11 psia
 - ii. POC emissions, based on the maximum throughput in part 1, do not exceed 355.75 pounds per year; and
 - iii. toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level.(basis: Cumulative Increase, Toxic Risk Screen)

4. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:

- a. At the inlet to the second to last carbon vessel in series.
- b. At the inlet to the last carbon vessel in series.
- c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

(basis: Cumulative Increase, Toxic Risk Screen)

5. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with parts number 6 and 7, and shall be conducted every other day. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule.

(basis: Cumulative Increase, Toxic Risk Screen)

6. The second to last carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:

- a. 10 % of the inlet stream VOC concentration to the Carbon vessel.
- b. 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

7. The last carbon vessel shall be changed out with unspent carbon upon detection at its outlet of 10 ppmv or greater VOC (measured as C1).

(basis: Cumulative Increase, Toxic Risk Screen)

8. Any exceedance of conditions parts 6 and/or 7 shall be reported to the Permit Services Division with the log as well as the corrective action taken. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

(basis: Cumulative Increase, Toxic Risk Screen)

9. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.

b. Each monitor reading or analysis result for the day of operation they are taken.

c. The number of carbon beds removed from service.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log 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, Regulation 1-441, Regulation 8-5-501)

Condition 21536

Application #9259 (June 15, 2004)

S-1489 Fixed Volume Portable Tank #1; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

S-1490 Fixed Volume Portable Tank #2; Storing: Slop Oil and Water Mixture, Capacity: 500 BBL abated in series by A-1001 Carbon Canister 200 LB Activated Carbon and A-1002 Carbon Canister 200 LB Activated Carbon

1. The total throughput at tank S-1489 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

2. The total throughput at tank S-1490 shall not exceed 13,000 barrels in any consecutive 12-month period.

(basis: Cumulative Increase, Toxic Risk Screen)

3. The owner/operator shall abate S-1489 and S-1490 with A-1001 and A-1002 Carbon Canisters in series at all times. The carbon canisters (200 lb/each activated carbon) shall have an overall collection and adsorption efficiency of at least 95% by weight POC.

(basis: Cumulative Increase, Toxic Risk Screen)

4. Materials stored in S-1489 and S-1490 shall be limited to the following:

a. Slop Oil and water mixture with a true vapor pressure less than 11 psia

b. Liquids other than those specified above may be stored in S-1489 and S-1490, provided that both of the following criteria are met:

i. true vapor pressure must be less than 11 psia

ii. POC emissions, based on the maximum throughput in parts 1 and 2, do not exceed 711.50 pounds per year; and

iii. toxic emissions in lbs/year, based on the maximum throughput in parts 1 and 2, do not exceed any risk screening trigger level.

(basis: Cumulative Increase, Toxic Risk Screen)

5. The owner/operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer at the following locations:

a. At the inlet to the second to last carbon vessel in series.

b. At the inlet to the last carbon vessel in series.

c. At the outlet of the carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

(basis: Cumulative Increase, Toxic Risk Screen)

6. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of carbon change-out necessary to maintain compliance with parts number 7 and 8, and shall be conducted every other day. The owner/operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the owner/operator prior to a change to the monitoring schedule.

(basis: Cumulative Increase, Toxic Risk Screen)

7. The second to last carbon vessel shall be changed out with unspent carbon upon breakthrough, defined as the detection at its outlet of the higher of the following:
 - a. 10 % of the inlet VOC stream concentration to the Carbon vessel.
 - b. 10 ppmv or greater VOC (measured as C1).
(basis: Cumulative Increase, Toxic Risk Screen)
8. The last carbon vessel shall be changed out with unspent carbon upon detection at its outlet of 10 ppmv or greater VOC (measured as C1).
(basis: Cumulative Increase, Toxic Risk Screen)
9. Any exceedance of conditions parts 7 and/or 8 shall be reported to the Permit Services Division with the log as well as the corrective action taken. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.
(basis: Cumulative Increase, Toxic Risk Screen)
10. To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:
 - a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids.
 - b. Each monitor reading or analysis result for the day of operation they are taken.
 - c. The number of carbon beds removed from service.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log 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, Regulation 1-441, Regulation 8-5-501)

Condition 21751

Application #9788 (September 17, 2004)

Application #10880 (October, 2004): Amendment to refund offsets and clarify conditions.

Application 18861/18862 (2008) Remove Redundant and Completed Fugitive Conditions
Ultra Low Sulfur Diesel Project

S-920 No. 2 HDS Charge Heater, No. 20 Furnace, Foster Wheeler, Maximum Firing Rate: 63 MMBtu/hr

S-1001 No. 50 Crude Unit

S-1003 No. 2 HDS Unit

1. Completed. (Final Fugitive Count submitted 3/3/06 and offsets were adjusted.)
2. Completed. (Final Fugitive Count submitted 3/3/06 and offsets were adjusted.)

3. Deleted. (Valve Design Requirements Completed and Leak Limits redundant with Regulation 8-18-302)
4. Deleted. (Connector Design Requirements Completed and Leak Limits redundant with Regulation 8-18-304)
5. Deleted. (Pump Design Requirements Completed and Leak Limits redundant with Regulation 8-18-303)
6. Deleted. (Compressor Design Requirements Completed and Leak Limits redundant with Regulation 8-18-303)
7. Deleted. (Pressure Relief Valve Design Requirements Completed and redundant with Regulation 8-28-302. All PRDs vent to the refinery fuel gas system or an abatement device with $\geq 98\%$ efficiency.)
8. Deleted. (Completed. All fugitive components have been added to the refinery fugitive monitoring and repair program)

Condition 21849

Application #10668 (October 29, 2004)

Loading Rack Modernization Project

Application #13493 (October, 2005): Modification of emission limit from S-1025 to the RACT and Regulation 8-33-301 level of 0.08 lb POC per 1000 gallon of material loaded.

Administratively Changed by Application 18861 (June 2009) Removed completed parts and parts redundant with District Regulations

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Application 21023 (January 2010): increase ethanol throughput of S-1504 from 400,000 bbl/yr to 1,200,000 bbl/yr.

Administratively changed by Application 23981 (April 2012):

Updated Part 11 to remove 5 year source test link to Title V renewal, removed S-913 from source test requirement (no longer on 40# fuel gas system, and increased time allowed for submitting source test report to 60 days.

Administratively Changed by Application 24362 (June 2012) Removed S-913 from the source test requirements of Part 4 since no longer fired with 40# fuel gas.

Application #31305 (November 2021): Part 11 - Updated emission limit to 0.04 lb POC per 1000 gallon of material loaded per Regulation 8-33-301 and added A-1584 to source test requirement.

Application #30768 (September 2022): Revised Parts 7 and 11 as part of Marathon's Renewable Fuels Project.

S-613 Vapor Storage Tank A-613; Fixed Roof Tank, Capacity 420K Gallons, Storing: Organic Vapor

S-696 Tank A-696; Internal Floating Roof Tank, Capacity 630K Gallons, Storing: Gasoline

S-1025 Bulk Terminal Bottom Loading Facilities: Gasoline, Diesel, Renewable Diesel

S-1504 Bulk Terminal Unloading Rack: Ethyl Alcohol

Fugitive Components

1. Completed. Final fugitive count for the project submitted 5/5/2005 and offsets were provided.

2. Completed. Final fugitive count for the project submitted 5/5/2005 and offsets were provided.
3. Deleted. ATC construction requirement completed.
4. Deleted. ATC construction requirement completed.
5. Deleted. ATC construction requirement completed.
6. Deleted. ATC construction requirement completed. Redundant with Regulation 8-28.
7. Deleted. Redundant with Regulation 8-18. Components were incorporated into facility LDAR program on project startup.

S-1025 Bulk Plant Bottom Loading Facilities: Gasoline, Diesel, Renewable Diesel

8. The owner/operator of S-1025 shall apply for the proper certification from the California Air Resources Board (CARB) for the A-14 Vapor Recovery System prior to startup.
(basis: Regulation 8-33-301, 302)
9. The owner/operator of S-1025 Bulk Plant Loading Facilities shall not exceed the following throughputs.

64,457 barrels (2,707,194 gallons) per day
18,615,000 barrels (781,830,000 gallons) per any 12 month consecutive period
(basis: toxic risk screen)
10. The owner/operator of S-1025 shall not transfer any material other than gasoline, diesel, or renewable diesel.
(basis: toxic risk screen)
11. To ensure that the S-1025 Bulk Plant Unloading Rack does not exceed an emission factor greater than 0.04 lb POC per 1000 gallons of material loaded, the owner/operator shall:
 - a. not operate S-1025 unless vented to S-613 Vapor Recovery Tank and A-14 Vapor Recovery System.
 - b. install a sample line from each of the pressure-vacuum valves located at the loading racks, which is easily accessible by District personnel to determine any valve leakage.
 - c. install and maintain a pressure switch at the knockout pot, V-61, located at the interface of the vapor outlet of the S-1025 Loading Rack and the inlet to the A-14 Vapor Recovery and S-613 Vapor Recovery Tank Systems. The pressure switch shall be set at 18 inches of water column as measured at the cargo tank/vapor coupler interface located the furthest from the knockout pot, V-61. If the pressure exceeds 18 inches, a high-pressure alarm will shutdown loading rack operations.
 - d. conduct District approved source tests to determine POC destruction efficiency at the following sources every 5 years (initial compliance has been demonstrated in a source test for AN 6201 by TIAX on October 28, 2003). Initial source testing for AN 30768 is contained in permit condition 27604 part 5.

S-919 No. 2 HDS Depent Reboiler (F19)
S-920 No. 2 HDS Charge Heater (F20)
S-928 HDN Reactor A Heater (F28)
S-929 HDN Reactor B Heater (F29)
S-930 HDN Reactor C Heater (F30)
S-931 Hydrocracker Reactor 1 Heater (F31)
S-932 Hydrocracker Reactor 2 Heater (F32)
S-933 Hydrocracker Reactor 3 Heater (F33)
S-934 Hydrocracker Stabilizer Reboiler (F34)
S-937 Hydrogen Plant Heater (F37)
S-973 No. 3 HDS Recycle Gas Heater (F55), Abated by A-31 SCR
S-1511 Hot Oil Heater #1 (F78), Abated by A-1511 SCR
S-1512 Hot Oil Heater #2 (F79), Abated by A-1512 SCR
A-1584 Trailer Mounted Combustor, 42.3 MMBtu/hr, John Zink, PECS Unit

For each source, the owner/operator must measure the following:

- - the fuel feed rate in pounds/hr
- - the POC emission rate at the stack
- - the flue gas flow rate in SCFM at the stack
- - the oxygen content of the stack flue gas
- - the stack temperature
- - the destruction efficiency of POC as measured across the combustion device
- - the amount of gasoline loaded during the test

The owner/operator shall submit individual copies of the results of the source tests (along with related calculations and process data) to the District's Engineering Division, Enforcement Division, and Source Test Section within 60 days of the source test.

(basis: Cumulative Increase, Toxic Risk Screen, Regulation 8-33-301, Regulation 1-238, BACT)

12. To determine compliance with the parts 8-11, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. California Air Resources Board certification of A-14.
- b. On a daily basis, type and quantity of product loaded.
- c. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.

- d. The time, date, duration, and reason for each instance that S-1025 is not abated by S-613 or A-14.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log 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, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238)

S-1504 Bulk Plant Unloading Rack: Ethanol

13. The owner/operator of S-1504 Bulk Plant Unloading Rack shall not exceed the following throughput.

1,200,000 barrels per any 12-month consecutive period

(basis: cumulative increase, offsets, toxic risk screen)

14. The owner/operator of S-1504 shall not transfer any material other than fuel grade ethanol.
(basis: cumulative increase, offsets, toxic risk screen)

15. To determine compliance with parts 13 and 14, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. On a daily basis amount of ethanol transferred.
- b. The throughput of material shall be added and recorded in the log for each month and for each rolling consecutive 12-month period.

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District-approved log 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, Toxic Risk Screen, Offsets, Regulation 1-441, Regulation 1-238, Regulation 8-6-501)

Condition 22070

S-1005 No. 1 Hydrogen Plant: CO2 Vents #1 & #2:

Every two years, the owner/operator shall conduct a District approved source test at CO2 Vent #1 and CO2 Vent #2 at the S-1005 No. 1 Hydrogen Plant to demonstrate compliance with Regulation 8-2-301 in accordance with District source test methods or other methods approved in advance by the District. At least two weeks prior to testing, Permittee/Owner/Operator shall contact the District's Source Test Section, in writing, to provide notification of the testing procedure, date and time, and to obtain details on source testing requirements. Source test procedures are subject to approval of the APCO. A copy of the test report shall be provided to the Engineering Division, the District Director of Compliance and

Enforcement, and the District Source Test Division within 60 days of completion of the test. If the results for any source test exceed 7.5 lb/day total carbon or more than 150 ppm total carbon, the District approved source test frequency shall be annual. Records of the source test results and any related correspondence with the District's Source Test Division shall be retained on-site by the owner/operator for a minimum of 5 years from the date of the document.

(Basis: Regulation 2-6-409.2)

Condition 22227

S-823 Heat Exchanger Cleaning Pit North

S-824 Heat Exchanger Cleaning Pit South

1. During heat exchanger tube cleaning at S823 Heat Exchanger Cleaning Pit North and/or S824 Heat Exchanger Cleaning Pit South, the owner/operator shall check hourly for visible emissions. The visible emissions check shall take place while the tube is being cleaned and during daylight hours. If any visible emissions are detected, the operator shall take corrective action within one day, and check for visible emissions after the corrective action is taken. The owner/operator shall continue to check for visible emissions on an hourly basis until the tube cleaning activity is completed. [basis: Regulation 2-6-409.2]
2. The owner/operator shall keep records of all visible emissions checks per Part 1 of this condition, the person performing the check, and all corrective action taken. The records shall be retained for five years and shall be made available to District personnel upon request. [basis: Regulation 2-6-409.2]

Condition 22455

Application #12592 (August, 2005)

Modified by Application 17712 (June, 2008)

Amorco Transfer and Metering Project

Application 30768 (September 2022). Changed method of operation from unloading crude oil to loading renewable diesel as part of Marathon's Renewable Fuels Project. Loading at Amorco Terminal will be exempt from permitting per Regulation 2-1-123.3.2. Revised Parts 8-12 and added Parts 13-16.

Fugitive Components

1. Deleted. The project final fugitive component count was provided June 28, 2007.
2. Deleted. The increase in total fugitive component emissions was offset in July, 2007.
3. Deleted. The Authority to Construct requirement to install BACT compliant valves was satisfied. Fugitive organic emissions less than 100 ppm is required by Regulation 8-18-302.
4. Deleted. The Authority to Construct requirement to install BACT compliant flanges and connectors was satisfied. Fugitive organic emissions less than 100 ppm is required by Regulation 8-18-304.

5. Deleted. The Authority to Construct requirement to install BACT compliant pump seals was satisfied. Fugitive organic emissions less than 500 ppm is required by Regulation 8-18-303.
6. Deleted. The Authority to Construct requirements for Pressure Relief Valves was satisfied.
7. Deleted. The Authority to Construct requirements for fugitive emissions monitoring was satisfied.
- S-55 Amorco Wharf Terminal, Renewable Diesel, 9,855,000 bbl/yr
- S-19 Tank B-19, external floating roof, 3318K gal, Renewable Diesel, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-21 Tank B-21, external floating roof, 3276K gal, Renewable Diesel, Gasoline, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-30 Tank B-30, external floating roof, 3318K gal, Gasoline, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-49 Tank B-49, external floating roof, 5964K gal, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
- S-50 Tank B-50, external floating roof, 5922K gas, 70,080,000 bbl/yr limit applies to S-19, S-21, S-30, S-49, and S-50 combined
8. The owner/operator of S-55 Amorco Wharf Terminal shall not exceed a throughput of 9,855,000 barrels of renewable diesel per any consecutive 12 month period and/or 124,800 barrels of renewable diesel per calendar day.
(basis:cumulative increase, offsets, toxic risk screen)
9. The owner/operator of S-19, S-21, S-30, S-49, and S-50 Tanks shall not exceed a combined throughput of 70,080,000 barrels per any consecutive 12 month period. The owner/operator shall not use S-30, S-49, and/or S-50 Tanks to store any materials related to the Renewable Fuels Project, which includes renewable feedstocks, renewable fuels, wastewater, and any material needed for the production of the renewable fuels.
(basis: cumulative increase, offsets, toxic risk screen)
- 9A. The owner/operator of S-19 and/or S-21 shall each not exceed a throughput of 14,016,000 barrels per any consecutive 12 month period and/or 192,000 barrels per calendar day for each source.
10. Deleted. Operations at the Amorco Wharf has been changed from unloading crude oil to loading renewable diesel via Application 30768; therefore, Amorco Wharf is no longer permitted to receive any material.
11. The owner/operator of S-55 shall not load any material other than renewable diesel at the Amorco Wharf. The owner/operator of S-55 shall not unload any material at the Amorco Wharf.

(basis: cumulative increase)

12. The owner/operator of S-55 shall maintain records, in a District approved log, for
 - a. The date(s) and times at which the tank vessel arrived and departed from the marine terminal.
 - b. The type of marine vessel (ship or barge).
 - c. On a daily basis, the amount and true vapor pressure of renewable diesel loaded.
 - d. Consecutive 12 month average true vapor pressure of renewable diesel loaded.

All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request.

(basis:cumulative increase, recordkeeping, Regulation 1-441)

13. The owner/operate of S-55 shall ensure that any consecutive 12 month period average true vapor pressure of renewable diesel is less than or equal to 0.012 psia.
(Basis: Regulation 2-1-319)

14. The owner/operator of S-55 shall operate S-55 only when any regulated air pollutant (except greenhouse gases) emissions from product loading operations do not exceed the exemption threshold of 5 tons/year per Regulation 2-1-319 and S-55 shall remain not subject to sections 2-1-316, 317, and/or 318. The owner/operator shall record the quantity of renewable diesel loaded onto vessels at S-55 and perform the emission calculations required to demonstrate compliance using the methodology established in EPA AP-42, Chapter 5.2, and using actual true vapor pressure at the time of loading.
(Basis: Regulation 2-1-319)

15. The owner/operator of S-55 may only use a different methodology and/or different assumptions to demonstrate compliance with Part 14 when approved in advance by the Air District.
(Basis: Regulation 2-1-319)

16. The owner/operator of S-55 may load material in excess of the limit in Part 8 and true vapor pressure in excess of the limit in Part 13 provided that the owner/operator can demonstrate that all of the following are satisfied:

- a. Total emissions of any regulated air pollutant from loading operations at S-55 do not exceed 5 tons in any consecutive twelve month period;
- b. The use of these materials does not increase toxic emissions to equal to or above any toxic air contaminant trigger level of Table 2-5-1 in Regulation 2-5.

(Basis: Regulation 2-1-319; Toxics)

Condition 22640

Application 13228 (November 2005)

S-1506 External Floating Roof Tank; Tank A-893, Capacity: 132,000 BBL, Storing: Gasoline and Gasoline Blending Stock

S-1507 External Floating Roof Tank; Tank A-894, Capacity: 132,000 BBL, Storing: Gasoline and Gasoline Blending Stock

1. The owner/operator shall not exceed a net throughput at each of tanks S-1506 and S-1507 of 11,000,000 barrels in any consecutive 12-month period. (basis: Cumulative Increase, Toxic Risk Screen, BACT)

2. Materials stored in S-1506 and S-1507 shall be limited to the following:

a. Gasoline or gasoline blending stock with a true vapor pressure less than 11 psia

b. A liquid other than those specified above may be stored in S-1506 and/or S-1507, provided that all of the following criteria are met:

i. true vapor pressure must be less than 11 psia

ii. POC emissions, based on the maximum throughput in part 1, do not exceed 8,384.42 pounds per year per tank; and

iii. Toxic emissions in lbs/year, based on the maximum throughput in part 1, do not exceed any risk screening trigger level in Regulation 2-5.

(basis: Cumulative Increase, Toxic Risk Screen)

3. Deleted. The owner/operator disclosed the final fitting count March 14, 2008 and additional offsets were provided for the emission increase.

(basis: Cumulative Increase, Toxic Risk Screen, Offsets)

4. To determine compliance with the above conditions, the owner/operator shall maintain the To determine compliance with the above conditions, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a monthly basis, type and amount of liquids stored and true vapor pressure ranges of such liquids. These records shall be kept for at least 5 years.

b. For external floating roof tanks, the owner/operator who replaced all or part of a primary or secondary seal shall keep an accurate record of the length of seal replaced and the date(s) on which replacement occurred. These maintenance records shall be kept for at least 10 years.

All records shall be recorded in a District-approved log and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any application District Regulations. (basis: Cumulative Increase, Regulation 1-441, Regulation 8-5-501).

Condition 22850

Application 30827 (December 2022): New operating conditions for emergency standby diesel pumps.
S-1599 Emergency Standby Diesel Pump at Surge Pond 2

1. The owner/operator shall not exceed 50 hours per year per engine for reliability-related testing.
[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

2. The owner/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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

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: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

5. At School and Near-School Operation: If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner/operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds)
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]

Condition 22851

Application 19419 (June 2009)

Firewater Pumps for Facility B2758: S-1471, S-1472, S-1487, S-1488, S-1518, S-1519, S-1562, S-1563 and Facility B2759: S-57

1. Operating for reliability-related activities is limited to no more than 34 hours per year per engine which is the number of hours necessary to comply with the testing requirements of the National Fire Protection Association (NFPA) 25. This emergency fire pump is subject to the current National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems." [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations]
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" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.

e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(l), (or, Regulation 2-6-501)]

5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

a. Whenever there is a school sponsored activity (if the engine is located on school grounds)

b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session. "School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1)] or (e)(2)(B)(2)]

Condition 23129

Application 14141/14144 Coker Modification Project

Modified by Application 16389/16390 and

Application 18311 (Modify Part 26 – Initial source tests for heaters).

Application 20679/20680 (July 2009) Revise throughput in Part 3

Application 24065 (July 2012) Revised Part 56 to include purge gas.

Application 27030 (November 2015). Revised Parts 38, 39 and

42 (S-659, S-660 and A-9 Demolished) and Parts 53 and 56 for increased S-1517 Purge and Pilot Gas rates.

Application 29416 (September 2018). Added Parts 59 through 70 for S-1517

Administratively changed by Application 29278 (February 2021). Revised Part 26 to allow 60 days to submit source test reports.

Application 30768 (September 2022). Deleted Parts 1 through 3, 6 through 9, 29 through 49, and revised Parts 5 and 59 due to the shutdown of S-1510, S-1513, S-1514, S-1515, and S-1516 as part of Marathon's Renewable Fuels Project. Sources S-1511 and S-1512 remain operational, but no longer support the Delayed Coker Unit. Instead, S-1511 and S-1512 are repurposed to support the Pretreatment Unit S-2025. Removed the term "refinery" from "refinery fuel gas" as refinery fuel gas is referred to petroleum refinery fuel gas.

The following permit conditions will be imposed to ensure that the proposed project complies with all applicable District, State, and Federal Regulations. The conditions limit operational parameters such as fuel use, stack gas emission concentrations, and mass emission rates. Permit conditions will also specify

abatement device operation and performance levels. For compliance assurance purpose, conditions specifying emission monitoring, source testing, and record keeping requirements are included. Furthermore, pollutant mass emission limits (in units of lb./hr) will ensure that daily and annual emission rate limitations are not exceeded.

Compliance with CO and NOx limitations will be verified by continuous in-stack emission monitors (CEMs) that will be in operation during all heater operating modes, including start-up and shutdown. Compliance with SO2 and H2S limits will be determined by monitoring the total reduced sulfur (TRS) concentration level in the refinery fuel gas with a TRS analyzer. If natural gas is burned, the sulfur content will be assumed to be the same as natural gas specifications. Compliance with POC and PM10 mass emission limits will be demonstrated by annual source testing.

Delayed Coker (S-1510)

1. Deleted. S-1510 is shutdown via Application 30768.
2. Deleted. S-1510 is shutdown via Application 30768.
3. Deleted. S-1510 is shutdown via Application 30768.
4. The owner/operator of all sources (S-1511, S-1512, S-1517, A-1511, A-1512) shall inspect and maintain all new valves, pumps and flanges/connectors associated with this project according to District Regulation 8-18. (basis: Regulation 8-18)
5. The owner/operator of all sources (S-1511 and S-1512) shall ensure that each new pressure relief valve installed in hydrocarbon service is vented to the refinery fuel gas system or an abatement device with a capture/destruction efficiency of 98 wt% POC, or more, approved for this use in advance by the District. (basis: Regulation 8-28, BACT)
6. Deleted. S-1511, S-1512, and S-1517 do not have any process sample systems and S-1510 will be shutdown.
7. Deleted. [Final fugitive component count provided August 1, 2008. The Owner/Operator has been permitted to install fugitive components (992 gas service valves, 535 light liquid service valves, 15 pumps and 3080 connectors) with a total POC emission rate of 2.745 tons/yr for the entire Coker Modification Project.] (basis: cumulative increase, toxics)
8. Deleted. S-1510 is shutdown via Application 30768.

Delayed Coker Heater # 1 and # 2 (S-1511 and S-1512)

9. Deleted. S-1510 is shutdown via Application 30768.
10. The owner/operator shall burn in sources S-1511 and/or S-1512 only natural gas or fuel gas. (basis: cumulative increase, BACT)

11. The owner/operator shall not burn in sources S- 1511 and/or S-1512 fuel gas having total reduced sulfur (TRS) greater than 100 ppmv, based on 24-hour average and 35 ppmv, based on consecutive 365 day average. (basis: BACT)
12. Except as described below, the owner/operator of sources S-1511 and/or S-1512 shall not exceed 7 ppmv NO_x (calculated as NO₂) corrected to 3% oxygen dry (based on a three-hour average), and 35 ppmv CO, corrected to 3% oxygen dry (based on a three-hour average). (basis: BACT)
 - a. During startup, shut down and malfunction periods, the owner/operator of source S-1511 and/or S-1512 shall not exceed 50 ppmv NO_x (calculated as NO₂) corrected to 3% oxygen dry (based on a three hour average), and 400 ppmv CO, corrected to 3% oxygen dry (based on a three hour average). Startup, shutdown or malfunction shall not exceed 144 hours during any consecutive 12-month period. (basis: cumulative increase, offsets)
 - b. For up to 100 days per consecutive 12 month period, during periods of reduced furnace firing (such as spalling or reduced rates due to unit shutdowns or other reasons) the owner/operator of source S-1511 and/or S-1512 shall not exceed 50 ppmv CO at 3% O₂ dry (based on a three hour average). (basis: basis: cumulative increase, offsets)
13. The owner/operator shall not exceed 10 ppmv ammonia at 3% O₂ dry at the outlet of A-1511 and/or A-1512. (basis: cumulative increase, toxics)
14. The owner/operator shall not exceed 2,014,800 MMBtu of fuel gas and natural gas combined at each source (S-1511 and/or S-1512) in any consecutive 12-month period. (basis: cumulative increase)
15. The owner/operator shall ensure that the total sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner/operator shall use PG&E specification or equivalent pipeline quality natural gas. Compliance will be demonstrated through records that show the specification of natural gas by the supplier. (basis: BACT for both PM₁₀ and SO₂ when firing natural gas)
16. Deleted. Duplicate with Part 15.
17. The owner/operator of sources S-1511, S-1512, A-1511 and/or A-1512 shall comply with the requirement of Regulation 2-2-306 for sulfuric acid mist emissions (SAM). (basis: PSD)
18. The owner/operator of S-1511, S-1512, A-1511 and/or A-1512 shall ensure that the emissions from A-1511 or A-1512 shall not exceed 230 mg/dsm (0.10 gr/dscf or 160 ppmv (dry basis)) of H₂S average over 3 hours at the inlet of S-1511 or S-1512, or 20 ppmv (dry basis) of SO₂ at the outlet of A-1511 or A-1512 except as allowed by NSPS Subpart J and Subpart A for startup, shutdown, or malfunction. (basis: Regulation 2-2-208, Cumulative Increase)
19. When burning fuel gas in S-1511 and/or S-1512, the owner/operator of S-1511, S-1512, A-1511 and/or A-1512 shall install a total reduced sulfur (TRS) or SO₂ continuous monitoring and recording system to verify compliance with the requirement of Part 18. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. (basis: Regulation 2-2-208, Cumulative Increase)

20. The owner/operator shall abate Heater #1 and Heater #2 (S-1511 and S-1512) with Selective Catalyst Reduction systems (A-1511 and/or A-1512), respectively at any time that S-1511 and/or S-1512 are in operation, except for 144 hours each in any consecutive 12-month period during startup, shutdown and malfunction. (basis: cumulative increase)
21. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of nitrogen oxides (calculated as NO₂), in ppmv units, in the combustion exhaust from A-1511 and/or A-1512, corrected to 3% oxygen, dry. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)
22. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of carbon monoxide (CO), in ppmv units, in the combustion exhaust from A-1511 and/or A-1512, corrected to 3% oxygen, dry. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)
23. The owner/operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitoring (CEM) device that continuously measures and records the concentration of oxygen in the combustion exhaust from A-1511 and/or A-1512. This CEM device shall be in operation at all times when S-1511 and S-1512 operate except as allowed in the District's Manual of Procedures, which includes maintenance and malfunction. (basis: cumulative increase, BACT, offsets)
24. The owner/operator shall install, operate and maintain a District approved fuel flow meter that measures the volume of fuel throughput to S-1511 and/or S-1512 in units of standard cubic feet. (basis: cumulative increase)
25. The owner/operator shall install, operate and maintain a District approved calorimeter that measures the heating value when fuel gas is fired at S-1511 and/or S-1512. (basis: BACT, cumulative increase, offsets, toxics)
26. The owner/operator shall conduct District approved initial source tests on Heaters S-1511 and S-1512 to demonstrate compliance with the NO_x, CO, TRS, NH₃, PM₁₀ and SAM levels in Parts 11, 12, 13, and 17. For purposes of SAM, the applicant shall also test for SO₃ and ammonium sulfates. Source tests conducted while firing natural gas shall demonstrate compliance with the NO_x, CO, NH₃ and PM₁₀ levels. Source tests conducted while firing fuel gas shall demonstrate compliance with the NO_x, CO, TRS, NH₃, PM₁₀ and SAM levels. The required source tests are as follows:
 - a. Deleted. (The initial source test was completed from August 12 through August 14, 2008)
 - b. Deleted. (The initial source test for part a. was at firing rates above 80% of maximum firing)

c. Heaters S-1511 and/or S-1512 firing fuel gas only at as-found conditions (within 60 days after the fuel gas is first used). If Heater S-1511 and/or S-1512 is operating at 80% or more of maximum firing rate during this source test, then the requirements for source test (d) shall have been met for that heater.

d. Heaters S-1511 and/or S-1512 firing fuel gas only (within 60 days after 80% or more of maximum firing rate is first reached on fuel gas).

The test results from source tests shall be forwarded to the District within 60 days of completion of the field tests, but no later than 150 days of initial startup. Subsequent test results shall be forwarded to the District within 60 days of completion of the field tests. The owner/operator shall notify the District of the following events:

- i. The actual date that each Heater first fires at 80% of maximum firing rate on natural gas within 15 days after such date.
- ii. The actual date that the Heaters first fire fuel gas within 15 days after such date.
- iii. The actual date that each Heater first fires at 80% of maximum firing rate on fuel gas within 15 days after such date.

(basis: compliance demonstration, PSD avoidance)

The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM10 emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 60 days of conducting the tests except as otherwise required above. (basis: source test compliance verification)

27. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made (basis: Regulation 2-6-501)

28. When burning fuel gas in sources S- 1511 and/or S-1512, the owner/operator shall record the consecutive 3-hour average total reduced sulfur content of the fuel gas. On an annual basis, the owner/operator shall report:

- a. the daily fuel consumption,
- b. hourly total reduced sulfur content (as averaged over 24 consecutive hours) and
- c. annual average reduced sulfur content.

The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the calendar year. The owner/operator may request a change to total reduced sulfur content monitoring requirements if the fuel gas stream is demonstrated to be inherently low in sulfur. (basis: BACT, offsets, cumulative increase)

Coker Screen/Crusher (S-1513) and Conveyors & Dewatering Pad

29. Deleted. S-1513 is shutdown via Application 30768.
30. Deleted. S-1513 is shutdown via Application 30768.
31. Deleted. S-1513 is shutdown via Application 30768.
32. Deleted. S-1513 is shutdown via Application 30768.
33. Deleted. S-1513 is shutdown via Application 30768.
34. Deleted. S-1513 is shutdown via Application 30768.
35. Deleted. S-1513 is shutdown via Application 30768.
36. Deleted. (Laboratory analysis completed May 22, 2008. Moisture content was over the 5% by weight limit of Part 30) S-1513 is shutdown via Application 30768.
37. S-1513 is shutdown via Application 30768.

Coker Silos (S-1514 and S-1515 abated by A-1514 and A-1515, respectively)

38. Deleted. S-1514, S-1515, A-1514, and A-1515 are shutdown via Application 30768.
39. Deleted. S-1514, S-1515, A-1514, and A-1515 are shutdown via Application 30768.
40. Deleted. S-1514, S-1515, A-1514, and A-1515 are shutdown via Application 30768.
41. Deleted. S-1514, S-1515, A-1514, and A-1515 are shutdown via Application 30768.
42. Deleted. S-1514, S-1515, A-1514, and A-1515 are shutdown via Application 30768.

Coker Truck Loadout S-1516

43. Deleted. S-1516 is shutdown via Application 30768.
44. Deleted. S-1516 is shutdown via Application 30768.
45. Deleted. S-1516 is shutdown via Application 30768.
46. Deleted. S-1516 is shutdown via Application 30768.
47. Deleted. S-1516 is shutdown via Application 30768.

48. Deleted. S-1516 is shutdown via Application 30768.

49. Deleted. S-1516 is shutdown via Application 30768.

Flare S-1517

50. The owner/operator of S-1517 shall not exceed Ringelmann Number 1.0 for three minutes in any consecutive 60-minutes period or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-302. (basis: Regulation 6-1, and Regulation 1)

51. The owner/operator of S-1517 shall use steam in the flare to minimize smoking. (basis: BACT)

52. The owner/operator of S-1517 shall have a hydrocarbon destruction efficiency of at least 98.5 wt.% POC on a mass basis: (basis: BACT)

53. The owner/operator of S-1517 shall not exceed 14,235,000 standard cubic feet of natural gas for flare purge and pilots in any consecutive 12-month period. (basis: cumulative increase)

54. The owner/operator shall comply with the requirements of 40 CFR 60, Subpart J. (basis: Consent Decree 23562)

55. The owner/operator of S-1517 shall install H2S continuous monitoring and recording system to verify compliance with the requirement of Regulation 12-11. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. (basis: Regulation 12, Rule 11)

56. The owner/operator of S-1517 shall fire only natural gas at all flare pilots and purge gas. (basis: cumulative increase)

57. The owner/operator shall maintain all records and reports required by this permit in a District-approved log. The following records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. (basis: Regulation 2-6-501)

a. The continuous H2S concentration at source S-1517.

b. Total daily flow rate of the gas through the flare, summarized in a consecutive 12-month period.

Contemporaneous Emissions reduction credit

58. Deleted. (Sources S-806, S-808, S-836,

S-837, S-838, S-903, S-923, S-924 and S-925 were shutdown and removed from the Owner/Operator's permit via Application 18739.)

Temporary Installation of A-1583, H2S treatment system, knockout pot followed by 2 caustic scrubbers in parallel, to be used interchangeably during planned turnaround of S-1526 (8/23/18)

The below conditions apply to the installation of A-1583, H₂S Treatment System (knockout drum followed by 2 caustic scrubbers to be used interchangeably) upstream of S-1517 during a planned shutdown of S-1526. These conditions are in addition to existing conditions and are not meant to superseded/displace any other conditions for this source.

59. The owner/operator of A1583, shall only install and operate this device for the planned shutdown of S1526 to ensure that S1517 operates in compliance with EPA NSPS Part 60 Subpart Ja during a turnaround event. [Basis: NSPS]

60. During operation of A1583, the owner/operator shall route spent caustic generated from A1583 via vacuum truck to S1468, Spent Caustic Tank. The amount of spent caustic routed to S1468 shall not result in a total fill rate greater than 11,000 gallons per hour of material. [Basis: Cumulative Increase]

61. The owner/operator of A1583 shall ensure that the organic content of spent caustic produced by A1583 not exceed 1wt%. [Basis: Cumulative Increase]

62. The owner/operator shall not exceed 0.480 tons per year of POC emissions measured as C1 from the total fugitive component count installed as part of Application 29416. The owner/operator has been permitted to install the following fugitive components:

87 valves in hydrocarbon service

146 flanges/connectors in hydrocarbon service

[Basis: Cumulative Increase, offsets, toxics]

63. [Deleted; Final fugitive component count provided 12/31/18]

64. The owner/operator shall install valves, in light hydrocarbon service, that are of District approved BACT compliant technology (bellows valves, diaphragm valves, live loaded valves, or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. [Basis: BACT, Regulation 8-18, toxics risk screen]

65. The owner/operator shall install flanges and connectors, in light hydrocarbon service, that are of District approved BACT compliant technology (graphitic gaskets or the equivalent) such that fugitive organic emissions shall not exceed 100 ppm. [Basis: BACT, Regulation 8-18, toxics risk screen]

66. The owner/operator shall install pump seals, in light hydrocarbon service, that are of District approved BACT compliant technology (double mechanical seals with barrier fluid or the equivalent) such that fugitive organic emissions shall not exceed 500 ppm.
[basis: BACT, Regulation 8-18, toxics risk screen]

67. The owner/operator shall ensure that each pressure relief valve installed in hydrocarbon service is vented back to the process, to the refinery fuel gas system, or to an abatement device with a capture and destruction efficiency of at least 98% by weight. [basis: BACT, Regulation 8-28, toxics risk screen]

68. The owner/operator shall integrate all new fugitive equipment in organic service installed as part of the A1583 into the facility fugitive equipment monitoring and repair program. [basis: BACT, Regulation 8-18]
69. The owner/operator of A-1583 Flare Gas H₂S Treatment System shall maintain all records and reports required by this permit condition in a District approved log. The following records shall be kept on site and shall be made available for District inspection for a period of at least 5 years from the date on which a record is made. (Basis: Recordkeeping, NSPS, Regulation 9-1-313.2, Regulation 12-11-401)
- a. Flow rate of vent gas treated by A-1583.
 - b. Amount of caustic used at A-1583.
 - c. Amount of spent caustic from A-1583 stored in S-1468 Spent Caustic Tank.
 - d. Organic content of spent caustic from A-1583.
 - e. Concentration of H₂S in vent gas feed to A-1583.
 - f. Concentration of H₂S in vent gas flared at S-1517.
 - g. The owner/operator shall choose one of the following recordkeeping/evaluation methods for determination of sulfur recovery on a refinery-wide basis during the operation of A-1583:
 - i. Record amount of sulfur removed from the vent gas in A-1583 OR
 - ii. Exclude amount of sulfur removed from the vent gas in A-1583 from the calculation of total sulfur recovered on a refinery-wide basis.
 - h. Amount of SO₂ emissions from S-1517 that are calculated in accordance with Condition 8077 Appendix C, Section 2(d), and included in the monthly "EMIT" report required by Condition 8077-B5B.
70. If the owner/operator is using the operation of A-1583 in lieu of any measure set forth per Condition 8077-B9C (I-vi) then the owner/operator shall include a summary of the A-1583 operation during the turnaround, including vent gas flow, H₂S concentrations, and refinery-wide sulfur recovery, in the written follow-up report required by Condition 8077-B9C(viii).
(Basis: Recordkeeping, NSPS, Regulation 9-1-313.2, Regulation 12-11-401)

Condition 23258

Conditions for Source S-1038, Benzene Saturation Unit
Application #14894 (2006), BSU Throughput Increase , Plant # 14628 – Tesoro Refinery.

1. The Owner/Operator shall ensure that the Benzene Saturation Unit (S-1038) does not process more than 5,475,000 barrels of feed at S-1038 during any 12 consecutive month period. (basis: cumulative increase)

2. Deleted. Redundant with Regulation 8-18. Components were incorporated into the facility LDAR program on project startup.
3. Deleted. The Owner/Operator submitted a final component count and has been permitted to install fugitive components (24 valves, 19 flanges/connectors, 0 pumps, 0 PSD, 0 compressor) with a total POC emission rate of 40.6 lb/yr.
4. Deleted. Redundant with Regulation 8-28. All pressure relief valves have been tied into a closed system so there are no leaks to atmosphere.
5. The Owner/Operator shall maintain a District- approved file containing all measurements, and other data required to demonstrate compliance with the above conditions. This file shall include, but is not limited to, the daily throughput of feed processed by S-1038 summarized on a monthly basis. This material shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: cumulative increase)

Condition 23263

Conditions for Source S-896, External Floating Roof Tank A-896
Application #14919,
Plant # 14628 - Tesoro Refinery.
Modified by Application 16822, March 2008

1. The owner/operator of S-896 shall not exceed 2,500,000 barrels of materials, including Gasoline, Heavy Straight Run Naphtha, Jet Naphtha, Reformate, General Refinery Oils, and Slop Oils, during any consecutive twelve-month period. (Basis: Cumulative Increase)
2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC emissions from S-896 do not exceed 4,943 pounds in any consecutive twelve month period; and
 - 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, Offsets)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of each type of liquid stored at this source on a monthly basis.
 - b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;

c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(Basis: Cumulative Increase; Toxics)

4. The owner/operator of S-896 shall equip the source with a liquid mounted primary seal and a zero-gap secondary seal. There shall be no ungasketed roof fittings. Except for roof legs, each roof fitting shall be of the design, which yields the minimum roof fitting losses (per EPA Compilation of Air Pollution Emission Factors, AP-42, Supplement E, Section 12.3.2, Table 12.3-11). The following list indicates the type of control required for a variety of typical roof fittings. Control techniques for roof fittings not included in this list shall be subject to District approval, prior to installing the roof on the tank.

Fitting Type:	Control Technique
Access hatch:	Bolted cover, gasketed
Guide pole/well:	Unslotted guide pole, gasketed sliding cover; or slotted with controls per API 2517 Addendum (See Note 1)
Gauge float well:	Bolted cover, gasketed
Gauge hatch/sample well:	Weighted mechanical actuation, gasketed
Vacuum breaker:	Weighted mechanical actuation, gasketed
Roof drain:	Roof drain does not drain water into product
Roof leg:	Fixed; or adjustable with vapor seal boot, or gasket between roof leg and leg sleeve
Rim vent:	Weighted mechanical actuation, gasketed

NOTE 1: Slotted Guide Pole Control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

- a. Sliding cover;
- b. Well gasket;
- c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or District approved equivalent
- d. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers (Basis: BACT)

NOTE 2: This part 4 Authority to Construct design condition will be deleted once the tank design is confirmed to comply with BACT.:

Condition 23562

Application 15949 (May 2007): Add EPA Consent Decree requirements (Case No. SA-05-CA-0569-RF: United States of America v. Valero Refining Company – California, et. al.).

Modified by App. 18739 (Nov 2008) Removal of S923, S924 & S925

Application 17928/17458 (2008) Remove Demolished and OOS Sources

Application 19300 (December 2008) Remove S904 Backup CO Boiler Service

Administratively Revised by Application 19874 (July 2009) Updates for Combustion Sources Application 30768 (September 2022). Deleted sources S-902, S-904, S-913, S-915, S-916, S-921, S-927, S-950, S-1412, S-908, S-909, and S-912 as part of Marathon's Renewable Fuels Project.

- S920 No. 2 HDS Charge Heater (F20)
- S926 No. 2 Reformer Splitter Reboiler (F26)
- S928 HDN Reactor A Heater (F28)
- S929 HDN Reactor B Heater (F29)
- S930 HDN Reactor C Heater (F30)
- S931 Hydrocracker Reactor 1 Heater (F31)
- S932 Hydrocracker Reactor 2 Heater (F32)
- S933 Hydrocracker Reactor 3 Heater (F33)
- S934 Hydrocracker Stabilizer Reboiler (F34)
- S935 Hydrocracker Splitter Reboiler (F35)
- S937 Hydrogen Plant Heater (F37)

The heaters and boilers listed above shall be "affected facilities" under 40 CFR 60 Subpart J as fuel gas combustion devices. Except as allowed in this permit condition, the owner/operator shall comply with all applicable provisions of 40 CFR 60 Subparts A and J for these fuel gas combustion devices, except during periods of startup, shutdown, or malfunction of the affected facilities or the malfunction of the associated control equipment, if any, provided that during startup, shutdown, or malfunction, the owner/operator shall, to the extent practicable, maintain and operate the affected facilities including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraphs 12, 117, 118, 122.)

1. The owner/operator is exempt from notification requirements in accordance with 40 CFR Part 60, Subparts A and J, including without limitation 40 CFR 60.7, with respect to the provisions of 40 CFR, Subparts A and J, as such requirements apply to the fuel gas combustion devices listed in this permit condition. (Basis: EPA Consent Decree paragraph 120.)
2. The owner/operator shall use either continuous emissions monitoring systems (CEMS) or an approved alternative monitoring plan (AMP) to demonstrate compliance with the NSPS Subpart J emission limits for the fuel gas combustion devices listed in this permit condition. (Basis: NSPS Subparts A and J, EPA Consent Decree paragraph 121)
3. The owner/operator shall conduct the accuracy tests listed below on the CEMS used to comply with Part 3 unless that CEMS is otherwise subject to the requirements of NSPS Subparts A and J. These accuracy tests are allowed in lieu of the requirements of Part 60, Appendix F 5.1.1, 5.1.3 and 5.1.4.
 - a. Conduct either a RAA or a RATA on each CEMS at least once every three years.
 - b. Conduct a CGA on each CEMS each calendar quarter during which a RAA or a RATA is not performed.

- c. Conduct a FAT, as defined in BAAQMD regulations or procedures, if desired, in lieu of any required RAA or CGA.

(Basis: EPA Consent Decree paragraph 121.)

Condition 23739

Application # 16125

Source S-1521 External Floating Roof Tank A-904

Gasoline and Gasoline Blend Stock

1. The total net throughput at Tank 904 (S-1521) shall not exceed 10,000,000 barrels of gasoline and gasoline blendstocks in any consecutive 12-month period. (Basis: Cumulative Increase, Toxics)
2. Only materials with a true vapor pressure less than 7.3 psia shall be stored in S-1521. (Basis: Cumulative Increase, Toxics)
3. In order to demonstrate compliance with the above conditions, the Permittee/Owner/Operator of tank S-1521 shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of five years from the date that the record was made.
 - a. Identification of all materials stored and the dates that the materials were stored.
 - b. True Vapor Pressure of each material stored.
 - c. The total daily throughput of each material stored, summarized on a monthly basis.
 - d. The rolling 12-month throughput for all materials stored in S-1521.

(basis: cumulative increase, toxics)

Condition 23811

Application 14917, September 2006.

Modified by Application 16495, November 2007.

Modified by Application 19330, February 2009.

Modified by Application 21713, May 2010

Modified by Application 22152, October 2010 Modified by Application 25942, February 2014. Added S-1557.

Modified by Application 27790, January 2017. Added S-1561

Modified by Application 28553, September 2017, Added S-1572

Plant 14628 (B2758) Emergency Diesel Engines S-1518, S-1519 and S-1557

Plant 14629 (B2759) Emergency Diesel Engines S-56 and S-57

Plant 14628 (B2758) Emergency Diesel Engine S-1522

Plant 14629 (B2759) Emergency Diesel Engine S-58

Plant 14628 (B2758) Avon Wharf Berth 1A Emergency Generator Diesel Engine S-1561

Plant 14628 (B2758) No 4 Gas Plant Emergency Generator Diesel Engine S-1572

1. Operating for reliability-related activities is limited to 50 hours per year per engine.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(b)(3)(A)2b and 93115.6(a)(3)(A)1c]
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 hours while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.
[Basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.4(29)]
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: 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 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine(s).[Basis: Regulation 9-8-530, 2-6-501, and "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.10(f)]

Condition 24171

Application 18835/18832 (2008) New Gasoline Station
Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

1. The Phase 1 equipment shall be installed in accordance with California Air Resources Board (CARB) Executive Order G-70-97A and G-70-102. The nominal inside diameter of the vapor side of the two-pont system shall be no less than three inches anywhere between the storage tank and the vapor poppet.
2. The tank and the Phase II vapor recovery equipment shall be installed in accordance with CARB Executive Order G-70-194 and G-70-52AM.

3. Within ten (10) days of start-up, a Leak Test on all new and/or modified tank systems shall be performed in accordance with the District's Manual of Procedures Source Test Procedure ST-38. If the tank size is 500 gallons or less, the test shall be performed on an empty tank.
4. The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted in a District-approved format within thirty days of testing. Start-up tests results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087 or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 375 Beale Street, San Francisco, CA 94105).

Condition 24172

Application 18835/18832 (2008) New Gasoline Station
Conditions for S1525 Vehicle gasoline dispensing, Plant # 14628

Pursuant to BAAQMD Toxic Section policy, this facility's annual gasoline throughput shall not exceed 440,000 gallons in any consecutive 12 month period. (basis: District Toxic Risk Management Policy)

Condition 24321

Application 18949, May 2009
Flaring Prevention Measure
Hydrocracker Stage 1 Stripper Overhead Reroute to No 5 Gas Plant
S1007 Hydrocracker Unit
S1005 No 1 Hydrogen Plant
S1526 No 5 Gas Plant

1. The Owner/Operator shall operate S-1005 only when the hydrogen production does not exceed 93 MMSCF for each day or 31,025 MMSCF for each year. (Basis: Cumulative Increase)
2. The Owner/Operator shall maintain daily hydrogen productions records for S1005 to demonstrate compliance with Part 1 above. (Basis: Recordkeeping)

Condition 24324

Application 17752, July 2009
Consent Decree Requirements for
S-854 East Air Flare
S-992 Emergency Flare
S-1012 West Air Flare
S-1517 Coker Flare
Application 30768 (September 2022). Revised term "refinery" to "facility" in Part 4 as the facility is no longer classified as a refinery.

Note: The 'Consent Decree' referenced in this condition is:

Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et al in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005.

1. The Owner/Operator shall operate Flares S-854, S-992, S-1012 and S1517 only when in compliance with NSPS. (Basis: Consent Decree paragraphs 231 and 238).
2. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 shall comply with NSPS Subpart J by operating and maintaining a Flare Gas Recovery System to control continuous or routine combustion in the Flaring Device. Use of a flare gas recovery system on a flare obviates the need to continuously monitor and maintain records of hydrogen sulfide in the gas as otherwise required by 40 C.F.R. 60.105(a)(4) and 60.7 (Basis: Consent Decree paragraphs 233 and 235(a))
3. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 will take all reasonable measures to minimize emissions while periodic maintenance is being performed on the Flare Gas Recovery System. (Basis: Consent Decree paragraph 263)
4. The Owner/Operator of Flares S-854, S-992, S-1012 and S1517 may bypass the Flare Gas Recovery System in the event of an emergency, including unscheduled maintenance of such system in order to ensure continued safe operation of facility processes. (Basis: Consent Decree paragraph 264)
5. The combustion in a Flaring Device of process upset gases or fuel gas that is released to the Flaring Device as a result of relief valve leakage or other emergency malfunctions is exempt from the requirement to comply with 40 C.F.R. 60.104(a)(1). (Basis: Consent Decree paragraph 241)

Condition 24491

Application 20977 (November 2009)

Modified by Application 22169 (September 2010). Added S-1553 and deleted Part 3.

Modified by Application 27395 (January 2016). Added S-1558 and S-1559. Deleted Part 2.

S-1550	Backup Steam Boiler #1, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1550 SCR
S-1551	Backup Steam Boiler #2, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1551 SCR
S-1553	Backup Steam Boiler #3, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1553 SCR
S-1558	Backup Steam Boiler #4, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1558 SCR
S-1559	Backup Steam Boiler #5, 99 MM Btu/hr, Natural Gas Fired, Abated by A-1559 SCR

1. The owner/operator shall ensure that S-1550, S-1551, S-1553, S-1558 and S-1559 are fired exclusively on natural gas at a rate not to exceed 99 MMBtu/hr each. (Basis: Cumulative Increase, Offsets, Toxics, NSPS, BACT)
2. Deleted. (Application 27395) This part was deleted because the boilers are being permitted as permanent, rather than temporary boilers.
3. Deleted. (Application 22169)
4. Except for a time period not to exceed 48 hours per boiler startup or shutdown, the owner/operator shall ensure that S-1550, S-1551, S-1553, S-1558 and S-1559 are only operated when

abated by SCRs A-1550, A-1551, A-1553, A-1558 and A-1559, respectively. The total cumulative hours that each boilers can be operated without SCR abatement shall not exceed 384 hours per consecutive 12-month period. (Basis: Cumulative Increase, Offsets, Toxics)

5. The owner/operator shall ensure that S-1550, S-1551, S-1553, S-1558 and S-1559 are not operated unless they are each equipped with a District approved, fuel flow meter that measures the total volume of fuel throughput to S-1550, S-1551, S-1553, S-1558 and S1559 in units of standard cubic feet. (Basis: Cumulative Increase, Offsets, Toxics)

6. The owner/operator shall ensure that the total fuel fired in S-1550, S-1551, S-1553, S-1558 and S-1559 combined shall not exceed 12,319,560 therms in any 12 consecutive month period. (Basis: Cumulative Increase, Offsets, Toxics)

7. Except for periods of startup and shutdown as allowed in Part 4, the owner operator shall not operate S-1550, S-1551, S-1553, S-1558 or S-1559 unless NOx emissions are less than 7 ppmv, dry, @ 3% O₂. (Basis: Cumulative Increase, Offsets, BACT)

8. During periods of startup and shutdown as allowed in Part 4, the owner operator shall not operate S-1550, S-1551, S-1553, S-1558 or S-1559 unless NOx emissions are less than 30 ppmv, dry, @ 3% O₂. (Basis: Cumulative Increase, Offsets)

9. The owner operator shall not operate S-1550, S-1551, S-1553, S-1558 or S-1559 unless CO emissions are less than 50 ppmv, dry, @ 3% O₂. (Basis: Cumulative Increase, Offsets, BACT)

10. Within 10 days of the first fire date, the owner/operator shall conduct a District approved source test of each S-1550, S-1551, S-1553, S-1558 and S-1559. The District approved source test shall measure the emission rates of NOx, POC, SO₂, and PM₁₀, from S-1550, S-1551, S-1553, S-1558 and S-1559 while it is operated at not less than 80 MMBtu/hr. The owner/operator shall ensure that within 60 days of the date of completion of the source testing, two identical copies of the source tests results (each referencing permit application #20977, #22169, #27395 and plant #14628) are received by the District. One copy shall be sent to Source Testing and the other shall be sent to the Engineering Division. This District approved source test shall be repeated within 5 days of each subsequent boiler startup (or any operation without SCR abatement).(Basis: Cumulative Increase, Offsets, BACT)

11. In a District approved log, the owner/operator shall record the manufacturer, make, model, and maximum rated firing rate of each boiler used as S-1550, S-1551, S-1553, S-1558 and S-1559, and the following information for each calendar day that either S-1550, S-1551, S-1553, S-1558 or S-1559 fires fuel. The District approved log(s) shall be retained by the owner/operator on site for at least 5 years from the date of the last entry and made available to District staff upon request. (Basis: Cumulative Increase, Offsets, Toxics, BACT)

- a. The date and hours that each S-1550, S-1551, S-1553, S-1558 and S-1559 fire fuel.
- b. The amount of fuel fired at each S-1550, S-1551, S-1553, S-1558 and S-1559.

- c. The hours that each S-1550, S-1551, S-1553, S-1558 and S-1559 operate without abatement by a fully functioning SCR.
- d. Deleted. The steam production records are not required to demonstrate compliance with the limits in the permit conditions.

Condition 24649

Application # 20968

Source S-1549 Horizontal Fixed Roof Tank Diesel Additive

Administratively changed by Application 29278 (February 2021). Added Part 1a to detail the requirements for storing material other than the Innospec OLI-9085.x.

Application 32029 (June 2023). Added Part 1a.c.

- 1. The owner/operator of S-1549 shall not exceed the following throughput limits during any consecutive twelve-month period:

Innospec OLI-9085.x : 40,000 Gallons

(Basis: Cumulative Increase)

- 1a. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:

- a. Total POC emissions from S-1549 do not exceed 154.6 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; and
- c. The true vapor pressure of the materials stored S-1549 shall not exceed 0.5 psia.
(Basis: Cumulative Increase; Regulation 2-5-110, Regulation 8-5-117 Low Vapor Pressure)

- 2. To determine compliance with the above part, 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 liquid stored at this source on a monthly basis.
- b. If a material other than those specified in Part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
- c. Monthly throughput and emissions calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for 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; Regulation 2-5-110)

Condition 24724

Conditions for Source S-690, External Floating Roof

Tank A-690

Application #11737 (March 2005)

Modified by Application 11737 (August 2010)

Plant # 14628 - Tesoro Refinery.

1. The owner/operator of S-690 shall not exceed 18,250,000 barrels of Crude Oil with a TVP not to exceed 11 psia in any consecutive twelve-month period. (Basis: Cumulative Increase)
2. The owner/operator may store alternate liquid(s) other than the material specified in Part 1 and/or usages in excess of that specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC emissions from S-690 do not exceed 9,078 pounds in any consecutive twelve month period; and
 - 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, Offsets)
3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Quantities of Crude Oil stored at this source on a monthly basis.
 - b. If a material other than Crude Oil specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: Cumulative Increase; Toxics)

4. Completed. S-690 was constructed in accordance with BACT.

Condition 25025

Application # 22823

Source S-1554 Fixed Roof Tank A-943

Renewable feedstock

Application 30768 (September 2022). Deleted Parts 1, 2, 3, and 7. S-1554 has been repurposed to store renewable feedstocks only and is exempt from permitting per Regulation 2-1-123.3.6.

1. Deleted. S-1554 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.
2. Deleted. S-1554 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.
3. Deleted. S-1554 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.
4. Deleted. Final fugitive count provided 12/9/2011. Facility is permitted to emit 0.414 tons/yr POC from the S-1554 Tank A-943 HSVGO Project. (basis: Cumulative Increase, offsets)
5. Completed. Final fugitive count provided 12/9/2011 and additional offsets were provided. (basis: offsets)
6. Completed. Fugitive components installed as part of the S-1554 project were added into the facility fugitive equipment monitoring and repair program. (basis: Regulation 8-18)
7. Deleted. S-1554 is exempt from permitting per Regulation 2-1-123.3.6 as part of Marathon's Renewable Fuels Project.

Condition 25476

Tesoro Refinery and Marketing Company

Plant 14628, Application 23322

No 3 Reformer Capacity Increase

Application 27799, Reformat Upgrade Project (October 2017). Added Parts 30 through 41. Authority to Construct Cancelled October 2019. New Parts 30 through 41 Deleted.

Administratively changed by Application 29278 (February 2021). Revised Source Test requirements of Parts 25, 27, and 29 to test S971 and S972 independently.

Application 30768 (September 2022). Revised Part 2 and deleted S-908, S-971, S-972, S-1004, S-1020, A-1433 and associated requirements since these sources and associated components will be shutdown as part of AN 30768.

1. Deleted. S-1020 is shutdown via Application 30768.

2. The throughput of S-1555 Reformate Splitter shall not exceed 40,000 barrels per calendar day. (basis: cumulative increase).
3. Deleted. S-971 is shutdown via Application 30768.
4. Deleted. S-972 is shutdown via Application 30768.
5. Deleted. S-908 is shutdown via Application 30768.
6. The Owner/Operator of S-926 shall not exceed 130MM Btu/hr of firing, on a calendar day basis, and 1,138,800 MMBtu/yr. [The requirements for submitting the permit application for S-926 were completed.] (basis: Regulation 2-1-233)
7. Deleted. S-971 and S-972 are shutdown via Application 30768.
8. Deleted. S-971 and S-972 are shutdown via Application 30768.
9. Deleted. S-971 and S-972 are shutdown via Application 30768.
10. Deleted. S-971 is shutdown via Application 30768.
11. Deleted. S-972 is shutdown via Application 30768.
12. Deleted. S-971 is shutdown via Application 30768.
13. Deleted. S-972 is shutdown via Application 30768.
14. Deleted. S-971 is shutdown via Application 30768.
15. Deleted. S-971 and S-972 are shutdown via Application 30768.
16. Deleted. S-971 and S-972 are shutdown via Application 30768.
17. Deleted. S-971 and S-972 are shutdown via Application 30768.
18. Deleted. S-971 and S-972 are shutdown via Application 30768.
19. Deleted. S-971 and S-972 are shutdown via Application 30768.
20. Deleted. S-971 is shutdown via Application 30768.
21. Deleted. [Fugitive component counts were provided.] The owner/operator shall not exceed 34 pounds per year of POC emissions measured as C1 from the total fugitive component count installed in TOC services as part of Application 23322. Compliance with this provision shall be verified quarterly using the District approved equations for Estimating Mass Emissions of Fugitive Hydrocarbon Leaks at Petroleum Facilities. The results shall be submitted to the District on a quarterly basis for two years commencing with start-up. Documentation of results shall be kept on site for five years.
22. Deleted. Condition no longer applicable as fugitive component counts were provided in Part 22.

23. Deleted. S-971, S-972, S-1004, and S-1020 are shutdown via Application 30768.
24. Deleted. S-971 and S-972 are shutdown via Application 30768.
25. Deleted. S-972 is shutdown via Application 30768.
26. Deleted. S-971 is shutdown via Application 30768.
27. Deleted. S-971 and S-972 are shutdown via Application 30768.
28. Deleted. S-971 and S-972 are shutdown via Application 30768.

Reformat Upgrade Project (Project Cancelled October 2019) Modification of S-1555 Reformat Splitter Cancelled.

29. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
30. Deleted. Application 27799 Authority To Construct Cancelled October 2019.

Alteration of Tract 3 Tanks cancelled.

31. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
32. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
33. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
34. Deleted. Application 27799 Authority To Construct Cancelled October 2019.

Alteration of Tract 6 Tanks cancelled October 2019.

35. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
36. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
37. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
38. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
39. Deleted. Application 27799 Authority To Construct Cancelled October 2019.
40. Deleted. Application 27799 Authority To Construct Cancelled October 2019.

Condition 25798

Tesoro Refinery and Marketing Company
Plant 14628, Application 26272
Permit to Operate, Temporary Operation for
S-850 No. 3 Hydrodesulphurization Unit
S-973 No. 3 HDS Recycle Gas Heater (F56)

1. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3)
2. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3, Offsets)
3. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3, Offsets)
4. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3, Offsets)
5. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Offsets)
6. The Tesoro Refinery Emissions Cap shall be reduced by the amount of the Coker Modification Project emissions credits granted by Tesoro Application 17798. (Basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)
7. The Tesoro Refinery Emissions Cap shall be reduced by the amount of the No. 2 Hydrogen Plant emissions, as permitted in Permit Application 3318 Refinery Modernization and Energy Conservation Project, to reflect the ownership transfer of this plant to Air Products and Chemicals, Inc. (Basis: Cumulative Increase, Offsets)
8. To ensure compliance with Parts 8 and 9 above, Permit Condition 8077, Part B2A emission limits shall be revised to read as follows:

Particulates	417.5	tons/year
Hydrocarbons	217.83	tons/year
NOx	2579.57	tons/year
SO2	1675.04	tons/year
CO	495.37	tons/year

(Basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)
9. To ensure compliance with Parts 8 and 9 above, Permit Condition 8077, Part B2B emission limits shall be revised to read as follows:

Particulates	43.875	tons/month
Hydrocarbons	76.677	tons/ month
NOx	315.659	tons/ month
SO2	441.920	tons/ month
CO	50.531	tons/ month

(Basis: Cumulative Increase, Offsets, Regulation 2, Rule 4)
10. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Offsets, Monitoring)

11. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Offsets)
12. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3.3)
13. Completed. The testing with the temporary permitted throughput increase was completed and the permit expired on September 19, 2014. (Basis: Regulation 2-1-302.3.3, Offsets)

Condition 25846

Tesoro Refinery and Marketing Company
Plant 14628, Application 25758
S-1412 SAP Startup Heater
Modified in 1980
Altered in 2014

1. The owner/operator of S-1412 shall operate this source on natural gas or refinery fuel gas exclusively. (basis: Cumulative Increase)
2. The owner/operator shall not use more than 9000 MM Btu of gas fuel at S-1412 in any consecutive twelve-month period unless a permit application is submitted within 7 days of the exceedance to the Air Quality Engineering Manager in the Engineering Division for including S-1412 into the Regulation 9, Rule 10 bubble. (basis: Cumulative Increase, Regulation 9-10-112)
3. To determine compliance with the above parts, the owner/operator shall maintain the monthly records of gas consumption at S-1412 in a District approved log. These logs shall be kept for at least 5 years and shall be made available to the District upon request. (basis: Cumulative Increase)
4. Within 60 days of the next scheduled startup following the commissioning of S-1412, the owner/operator shall conduct a District approved source test of S-1412 for NO_x and CO to determine emissions when using gas as a fuel. If the source test shows higher emissions than those reported in the engineering evaluation report (Application 25758), then Tesoro may need to submit an administrative permit amendment to the District to change the engineering evaluation to reflect the higher emissions. (basis: Total source emissions)
5. Deleted. (Tesoro requested that it not be required to provide post-project emissions information that demonstrated the project was an alteration.)

Condition 26033

Tesoro Refining & Marketing Company LLC
Plant 14628, Application 26198 (June 2015)
S-1025 Truck/Rail Bulk Plant

1. Within 30 days of installing the back pressure monitors on the vapor collection piping of each S-1025 loading arm abated by A-14 and the related fugitive components, such as but not limited to connectors, flanges, open-ended lines, pump seals, and valves as required by the 2009 amendments to

Regulation 8, Rule 33, the owner/operator shall provide the permit engineer in the Bay Area Air Quality Management District's (herein after District) Engineering Division assigned to Plant 14628 a final count of all fugitive components installed, along with each installed component's unique and permanent identification number. [Basis: Regulation's 2-1-403 and 8-33-309.10]

2. Until such time a final count of all fugitive components installed is provided to the District's permit engineer assigned to Plant 14628 and for the interim, the owner/operator has proposed to and has been permitted by the District under Application 26198 to install the following fugitive components: 36 connectors, 0 flanges, 0 open-ended lines, 0 pump seals, 12 valves. [Basis: Cumulative Increase, Regulation 2, Rule 5, Regulation 8, Rule 33]

3. On a quarterly basis, the owner/operator shall monitor the fugitive components installed as part of Application 26198 for leaks with a device such as, but not limited to, a flame ionization detector (FID). For the purposes of this permit condition, a leak is defined as the concentration of total organic compounds (TOC) above background, expressed as methane, as measured 1 centimeter or less from a leaking fugitive component using EPA Reference Method 21 (40 CFR 60, Appendix A). [Basis: Regulation 8, Rule 33]

4. Within 60 days of discovering a leak, the owner/operator shall repair and re-inspect all fugitive components installed under Application 26198 that are found to be leaking in excess of 100 ppm of TOC expressed as methane. [Basis: Regulation 2-1-403 and Regulation 2, Rule 5]

5. Each backpressure monitor installed by the owner/operator under Application 26198 shall be correlation tested as follows:

- a. The owner/operator shall conduct a District-approved correlation source test within 60 days of startup and annually thereafter, with pressure measured at the loading rack/cargo tank interface.
- b. The owner/operator shall submit a correlation testing protocol for each backpressure monitor installed under Application 26198 to be reviewed and approved by the Source Test Manager at least 15 days prior to conducting testing.
- c. The owner/operator shall notify the Manager of Source Test Section (STS) at least 7 days prior to the date the test is to be conducted, and shall submit the final source test reports to the above individual within 60 days of testing.

Protocol, notification and final report submission should be made electronically by the owner/operator to the Manager of Source Test at: sourcetest@baaqmd.gov. [Basis: Regulation 8, Rule 33]

6. The owner/operator shall maintain a District-approved monthly log of monitoring results and leak repairs performed at fugitive components installed as part of Application 26198 for at least 60 months from date of entry. The log may be in the form of computer-generated data, which is available to District personnel on short notice (rather than actual paper copies). [Basis: Regulation 2-1-403]

Condition 26406

Application 27790, January 2017 Avon Wharf MOTEMS Project

Application 30768 (September 2022). Revised Parts 4 and 6 to update loading material as part of Marathon's Renewable Fuels Project.

S-1560 Avon Wharf Berth 1A, abated by A-1560 Avon Wharf Berth 1A Marine Vapor Recovery System

1. The owner/operator shall not operate S-1560 Berth 1A unless the total product transferred at S1560 does not exceed 30,000,000 barrels in any consecutive 12 month period. The owner/operator shall not transfer any Crude Oil at S-1560 Berth 1A. (basis: Cumulative Increase, Offsets)

2. Emissions for Cargo Carrier (Barges and Tankers) calls to S-1560 Berth 1A shall not exceed the following fully offset limits:

NOx: 188.825 tons/year

CO: 34.425 tons/year

POC: 10.743 tons/year

PM10: 4.157 tons/year

SO2: 9.372 tons/year

(basis: Cumulative Increase, Offsets)

3. The owner/operator of S-1560 shall demonstrate compliance with the throughput limit in Part 1 by recording the monthly volumes of material loaded and unloaded at S-1560. Monthly throughput shall be totaled on a consecutive 12 month basis. The owner/operator shall demonstrate compliance with the emission limits in Part 2 by showing annual loading and unloading throughput, on a calendar year basis, is less than 30,000,000 barrels per year. (basis: Cumulative Increase, Offsets)

4. The owner/operator shall operate S-1560 only when POC emissions from product loading operations do not exceed the fully offset limit of 20.00 tons/year. The owner/operator shall record the quantity of each material loaded onto vessels at S-1560 and perform the emission calculations required to demonstrate compliance using the following emission factors (pounds per 1000 gallons loaded) and assuming a destruction efficiency of 98.5% for controlled loading.

Gasoline/Components loaded onto Tanker	1.8
Gasoline/Components loaded onto Barge	3.4
Petroleum Diesel loaded onto Tanker	0.005
Petroleum Diesel loaded onto Barge	0.012
Residual Oil loaded onto Tanker	0.00004
Residual Oil loaded onto Barge	0.00009
Renewable Naphtha loaded onto Tanker	1.8
Renewable Naphtha loaded onto Barge	4.6
Renewable Diesel loaded onto Tanker	0.007 (uncontrolled loading)
Renewable Diesel loaded onto Barge	0.018 (uncontrolled loading)

(basis: Cumulative Increase, Offsets)

5. The owner/operator may only use a different methodology and/or different assumptions to demonstrate compliance with Part 4 when approved in advance by the District. (basis: Cumulative Increase, Offsets)
6. The owner/operator of S-1560 Berth 1A shall not load any regulated materials, including gasoline, or renewable naphtha unless the entire loading operation is abated with A-1560 Marine Vapor Recovery System. (basis: Cumulative Increase, Offsets)
7. The owner/operator shall install and maintain a Pressure Recorder/Controller in the vapor recovery system to provide a permanent record of pressure during the loading of vessels. These records shall be maintained for a minimum of 5 years. (basis: Cumulative Increase)
8. Not less frequently than every six months, the owner/operator shall conduct tests to assess leakage from all relief valves that vent to atmosphere in the marine vapor recovery system. The owner/operator shall ensure that the testing and record keeping are done in compliance with Regulation 8, Rule 18. (basis: Cumulative Increase, Regulation 8-18)
9. Deleted. Tesoro provided the final fugitive component counts 5/4/2017. The total permitted fully offset fugitive POC emissions for the Avon Wharf MOTEMS project are 783 lbs/year. (basis: Cumulative Increase, Offsets)
10. Deleted. Offsets were adjusted according to the final fugitive component count.
11. The Owner/Operator shall maintain a District approved record containing all measurements of type of material and quantity of material loaded and unloaded over Avon Wharf Berth 1A. This information shall be kept available for District inspection for a period of at least 5 years following the date on which such measurements, records or data are made or recorded. (basis: Recordkeeping)
12. Deleted. S-100 was permanently decommissioned and the permits for S-100, S-108, S-1508 and S-1509 have been surrendered.
13. The owner/operator of S-1560 shall ensure that loading of renewable naphtha does not exceed 365,000 barrels in any consecutive 12 month period or 55,200 barrels per calendar day. (basis: cumulative increase, offsets, toxic risk screen)

Condition 26407

Application 27790, January 2017.
Avon Wharf MOTEMS Project
S-1562 Avon Berth 1A East Diesel Firewater Pump
S-1563 Avon Berth 1A West Diesel Firewater Pump

1. Operating for reliability-related activities is limited to 70 hours per year per engine.
[Basis: "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.6(a)(4)(A)1c]
2. The owner or operator shall operate each firewater pump 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 hours while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited.

[Basis: Regulation 9-8-330, "Stationary Diesel Engine ATCM", CA Code of Regulations, Title 17, Section 93115.4(29)]

3. The owner/operator shall operate each firewater pump 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: 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 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

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

Condition 26408

Application 27990, January 2017.

Avon Wharf MOTEMS Project

S-1564 Avon Berth 1A Recovered Oil Fixed Roof Tank 938, 3800 gallons

1. The owner/operator of S-1564 Tank 938 shall not exceed 250,000 gallons of water runoff and recovered oil in any consecutive 12-month period. (basis: Cumulative Increase, Offsets)
2. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1, provided that the owner/operator can demonstrate that all of the following are satisfied . (basis: Cumulative Increase, Regulation 2-5-110):
 - a. The true vapor pressure of the organic material is less than 11 psia
 - b. The total POC emissions from S-1564 do not exceed 3166 lbs in any consecutive 12-month period.
 - c. Toxic emissions do not exceed the following:

Toluene	56.95 lbs/yr or 0.385 lb/hr
Ethylbenzene	3.15 lb/yr
Xylene (Total)	15.73 lbs/yr or 0.106 lb/hr
Benzene	8.67 lbs/yr or 0.0586 lb/hr
Naphthalene	0.06 lbs/yr
n-Hexane	8.16 lb/yr

3. To determine compliance with the above parts, the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:

- a. Quantities of each type of liquid stored at this source on a monthly basis.
- b. If a material other than those specified in Part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
- c. Monthly throughput and/or emission calculations shall be totaled for each consecutive twelve-month period.

All records shall be retained on-site for 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; Regulation 2-5-110)

Condition 26791

Tesoro Refinery & Marketing Company, LLC
Plant 14628, Application 29058
Flare Supplemental Gas
Administratively removed S1524. Source was shutdown by
Application 30768.
S-854 East Air Flare
S-944 North Steam Flare
S-945 South Steam Flare
S-992 Emergency Flare
S-1012 West Air Flare
S-1517 Coker Flare

1. The owner/operator of Flares S-854, S-944, S-945, S-992, S-1012, and S-1517 shall use only natural gas as a supplemental gas necessary to comply with the minimum Net Heating Value at combustion zone (NHVcz) of 270 Btu/scf. (Basis: NESHAP 40 CFR 63.670(e) – effective January 30, 2019, except S-944 and S-945 effective October 1, 2017)

2. The owner/operator of Flares S-854, S-944, S-945, S-992, S-1012, and S-1517 shall comply with all applicable requirements in 40 CFR 63.670 to ensure each flare achieves a hydrocarbon destruction efficiency of at least 98 wt.% POC on a mass basis. (Basis: Regulations 2-1-403, NESHAP 40 CFR 63.670)
3. The owner/operator of Flares S-854, S-944, S-945, S-992, S-1012 and S-1517 shall limit the total Main Flare System use of natural gas as supplemental flare gas to 14,000 therms/hr and 1,700,000 therms in any consecutive 12-month period. (Basis: Toxics, Regulation 2-1-320, 2-1-403)
4. Deleted. S-1524 has been shut down.
5. To demonstrate compliance with Part 3 of this permit condition, the owner/operator shall install a gas flow rate monitor to measure the supplemental natural gas usage. (Basis: NESHAP 40 CFR 63.670(i))
6. The owner/operator of Flares S-854, S-944, S-945, S-992, S-1012, and S-1517 shall update and maintain the Flare Minimization Plan (FMP) as required by Regulation 12-12-404. (Basis: Regulation 12, Rule 12)
7. The owner/operator of Flares S-854, S-944, S-945, S-992, S-1012, and S-1517 shall install and operate a continuous parametric monitoring system (CPMS) along with a CPMS monitoring plan as required by and consistent with 40 CFR 63.671(b). (Basis: NESHAP 40 CFR 63.671, Regulation 1-523)
8. The owner/operator shall maintain all records and reports required by this permit condition in a District-approved log. The following records shall be kept on site and shall be made available for District inspection for a period of at least 5 years from the date on which a record is made. (Basis: Recordkeeping, NESHAP 40 CFR 63.670(e), Regulation 2-1-403)
 - a. Total daily flow rate of natural gas as supplemental gas to the flare, summarized on a consecutive 12-month period basis
 - b. Daily net heating value of the flare vent gas (NHVvg) and calculation of net heating value in the combustion zone (NHVcz)
 - c. Daily flare steam to vent gas ratio

Condition 26910

Tesoro Refining & Marketing Co., LLC
Plant 14628
S-134 Fixed Roof Tank, 651,000 gallons
S-137 Fixed Roof Tank, 659,000 gallons
S-642 External Floating Roof Tank, 1,806,000 gallons
S-896 External Floating Roof Tank, 1,805,000 gallons

1. The Owner/Operator shall not store organic liquids in either of the Recovered Oil Tanks S-134 or S-137 without a vapor recovery system that is designed and operated sufficient to collect and recover

the maximum design vapor emissions from each tank and to send the collected and recovered vapor emissions to the No. 1 Gas Plant. (Basis: Cumulative Increase)

2. The Owner/Operator shall continuously monitor and record the pressure of Tanks S-134 and Tanks S-137, at locations that are representative of the vapor space, at all times while they are in service. (Basis: Cumulative Increase, Regulation 2-5-110)
3. If the tank pressure of S-134 or S-137 exceeds 90% of the set point of the tank's Pressure Relief Device (PRD), the Owner/Operator shall inspect the tank's Pressure Relief Device(s) for visible leakage using an infrared optical gas imaging (IR) camera, by a properly trained operator, within 24 hours. If leakage is observed with an IR camera, the Owner/Operator shall continue IR camera monitoring daily until the Owner/Operator determines compliance with Regulation 8-5-307 within 5 days. During the 5-day period, if the monitoring demonstrates that there are subsequent leaks, the pressure threshold for monitoring shall be changed from 90% of set point to 80% of set point. This monitoring plan does not replace the regulatory vapor tight inspection requirements of Regulation 8, Rule 5. (Basis: Regulation 8-5-307)
4. The Owner/Operator shall keep records of all tank pressure readings and inspections required by parts 2 and 3 above in the Air District approved logs maintained pursuant to Part 4 of Conditions 20923 and 10984 with respect to Tanks S-134 and S-137, respectively, and shall retain and make available such records as required by Part 4 of said Conditions. Instances of non-compliance shall be reported to the Air District in accordance with the Title V Permit Conditions. (Basis: Cumulative Increase, Regulation 2-5-110, Recordkeeping)
5. The Owner/Operator shall operate the Recovered Oil Tanks S-134, S-137, S-642, S-896 at all times complying with the best operating practice of storing all slop oil in S-134 and/or S-137 fixed roof tanks with vapor recovery prior to storing in the S-642 and S-896 floating roof tanks. (Basis: Cumulative Increase, Regulation 2-5-110)
6. The Owner/Operator shall deinventory, clean, and remove from service S-134, S-137, S-642, and S-896 no later than December 31, 2023.

Condition 27543

- S-126 LPG Truck Loading Rack (Exempt)
- S-127 LPG Tank Car Loading Rack (Exempt)
- S-134 Tank A-134, Recovered Oil,
- S-137 Tank A-137, Fuel Oil #2, Waste Oil, Gasoline
- S-323 Tank A-323, Fuel Oil, Jet 'A', Gasoline, Alkylate Gasoline Blending Components
- S-532 Oil Water Separator
- S-603 Tank A-603, Organic Liquid – other/not Spec; #50 Unit Desalter Break Tank,
- S-613 Tank A-613, Vapor Storage Tank
- S-656 Tank A-846, Foul Water Stripper Charge Tank, Refinery Sour Waste Water
- S-658 Tank A-847, Foul Water Stripper Charge Tank, Refinery Sour Waste Water
- S-699 Tank A-690, API Separator Recovered Oil
- S-714 Tank A-714, Organic Liquid – other/not Spec, Hydrocarbon Alkylation Spent Acid

S-819 API Oil-Water, Separator/Dissolved Nitrogen Flotation System, Abated by A-39 Thermal Oxidizer (A-14 Vapory Recovery as backup)

S-1025 Bulk Plant; Bottom Loading Facilities

S-1560 Avon Wharf Berth No. 1A Marine Bulk Plant

A-1584 – Trailer Mounted Combustor, 42.3 MMBtu/hour, John Zink, PECS Unit

Application 31305 (November 2021)

Application 30768 (September 2022). Deleted S-432, S-1496, and S-1554 as sources are no longer connected to vapor recovery as part of Marathon’s Renewable Fuels Project. Deleted S-532 and S-1484 due to the shutdown these sources. Revised Part 1 due to the shutdown of S-908, S-909, and S-912 and replaced with S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, S-973, S-1511, and S-1512 for combustion of recovered vapors.

1. The owner/operator shall abate emissions from Sources S-126, S-127, S-134, S-137, S-323, S-532, S-603, S-613, S-656, S-658, S-699, S-714, S-819, S-1025, S-1560 via A-14 Vapor Recovery with Abatement Device A-1584, Thermal Oxidizer during all periods of operation when S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, S-973, S-1511, and S-1512 are all out of service. The owner/operator shall only operate A-1584 when S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, S-973, S-1511, and S-1512 are all out of service. The owner/operator of A-1584 shall not exceed a stack gas flow rate of 55,000 scfm.

(Basis: Regulation 2-2-208 Cumulative Increase)

2. The owner/operator shall operate A-1584 Thermal Oxidizer such that the VOC destruction efficiency shall be maintained at a minimum of 99.5% by weight.

(Basis: Regulation 2-2-208 Cumulative Increase)

3. The owner/operator of A-1584 shall not exceed the following limits measured at the outlet:

Nitrogen oxides (NOx) – 0.10 lbs/MMBtu

Carbon monoxide (CO) – 0.074 lbs/MMBtu

Precursor Organic Compound (POC) – 336.3 lbs/day

Precursor Organic Compound (POC) – 122,750 lbs/year

(Basis: Regulation 2-2-208 Cumulative Increase)

4. The owner/operator shall operate A-1584 to be at least 1400 degrees F. The Air 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 2 above.

(Basis: Regulation 2-2-208 Cumulative Increase)

5. To determine compliance with the temperature requirement in these permit conditions, the owner/operator shall equip A-1584 with a temperature measuring device capable of continuously measuring and recording the temperature in A-1584. The owner/operator shall install, and maintain in accordance with manufacturer’s recommendations, a temperature measuring device that meets the following criteria: the minimum and maximum measurable temperatures with the device are 32 degrees

F and 2,300 degrees F, respectively, and the minimum accuracy of the device over this temperature range shall be 1.0 percent of full-scale.

(Basis: Regulation 2-2-208 Cumulative Increase)

6. The owner/operator shall report any non-compliance with Part 4 of this condition to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence. (Basis: Regulation 2-2-208 Cumulative Increase)

7. The temperature limit in Part 4 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)

8. For each Allowable Temperature Excursion that exceeds 20 degrees F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five (or two years) years from the date of entry, and shall be made available to the Air 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)

9. Not later than 60 days from the startup of A-1584, the owner/operator shall conduct Air District-approved source tests to determine initial compliance with the limits in Parts 2, 3, and 4 for VOC destruction efficiency, emission limits, and temperature, respectively. The owner/operator shall submit the source test results to the Air District staff no later than 60 days after the source test.

(Basis: Regulation 2-2-208 Cumulative Increase)

10. The owner/operator shall obtain approval for all source test procedures from the Air District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements as specified in Volume IV 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: Regulation 2-2-208 Cumulative Increase)

11. The owner/operator shall not use A-1584 for tank degassing activities.

(Basis: Regulation 2-2-208 Cumulative Increase)

Condition 27583

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.

Application 31991 (February 2023): Removed S-646 and S-647 from Part 1. S-646 and S-647 are used to store renewable propane.

Administratively changed by Application 32029 (June 2023). Removed S57, S631, S990, and S1421 from Part 1 due to the shutdown of these sources.

General:

1. The owner/operator shall ensure that the following sources are not used in the process of unloading renewable feedstock, producing renewable fuels, loading renewable fuels, handling waste related to renewable fuels production or processing, or any other activities associated with the Renewable Fuels Project: S-3, S-26, S-33, S-101, S-134, S-135, S-137, S-217, S-258, S-270, S-272, S-274, S-327, S-429, S-467, S-494, S-495, S-514, S-515, S-516, S-532, S-554, S-572, S-585, S-599, S-603, S-604, S-612, S-618, S-637 through S-642, S-662, S-664, S-690, S-691, S-694, S-696, S-701, S-702, S-705 through S-711, S-714, S-755, S-821, S-823, S-824, S-871, S-896, S-922, S-926, S-935, S-943, S-1038, S-1105, S-1106, S-1461, S-1485, S-1489, S-1490, S-1491, S-1504 through S-1507, S-1521, S-1528, S-1549, and/or S-1555. Prior to operating any of the sources above with the renewable fuels process, the owner/operator shall submit a permit application and receive approval from the Air District.

(Basis: Regulation 2-1-403 Permit Conditions)

2. The owner/operator of Pretreatment Unit (S-2025), Diesel HDO Unit No. 3 (S-850), Diesel HDO Unit No. 2 (S-1003) Diesel Isomerization Unit (S-1007) and Diesel HDO Unit No. 1 (S-1008) shall not process any crude oil feedstock and/or any petroleum based material.

(Basis: Regulation 2-1-403 Permit Conditions)

Documentation:

The following permit conditions will be used to verify permitting actions/determinations and assumptions used for issuance of the Authority to Construct, which is based on preliminary information.

3. Prior to the issuance of the permit to operate, the owner/operator shall submit the following items to the Air District's Engineering Division (each referencing Permit Application #30768, Permit Condition #27583, Part 3):
 - a. Renewable Naphtha safety data sheet (SDS).
 - b. Vendor documentation for new aerators at S-830.
 - c. Final design drawings for Equalization Tank S-2010.
 - d. Final design drawings for Intermediate HDO Product Storage Tank S-621.
 - e. Final as-built Process Flow Diagrams for all changes associated with the Renewable Fuels Project.
 - f. Subsequent revisions to product safety data sheets (SDS) (Renewable Diesel, Renewable Propane, Renewable Naphtha, etc.).

(Basis: Regulation 2-1-403 Permit Conditions, Regulation 2-2-208 Cumulative Increase)

Contemporaneous Onsite Emission Reduction Credits

4. Intentionally left blank. Marathon has submitted a Device Data Update Form for contemporaneous onsite emission reduction credits.
5. Within 30 days of the completion of the installation/replacement of all fugitive components in Permit Condition #27596, Part 11, the owner/operator of S-850, S-1002, S-1003, S-1007, S-1008, S-1526, S-1510, and S-1600 shall submit a final count of removed components by source associated with the Renewable Fuels Project for contemporaneous onsite emission reduction credits to offset emissions increases for this project. A total of 0.917 tons per year of POC emissions have been credited for the removal of the following fugitive components:

5,083	valves in gas service
4,494	valves in light liquid service
1206	valves in heavy liquid
25,955	connectors
8,595	flanges
98	PSV's/PRV's
20	compressors
80	pumps in light liquid service
27	pumps in heavy liquid service
497	process drains

Once the actual counts of the removed fugitive components has been determined, the contemporaneous onsite emission reduction credits shall be adjusted as needed, subject to APCO approval, to reflect contemporaneous onsite emission reduction credits from actual removed component counts.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-221 Offsets, Regulation 2-2-231 Equivalence Credit)

New Source Performance Standards (NSPS) and National Emissions Standards for Hazardous Air Pollutants (NESHAP) Applicability Determination and Compliance:

6. The owner/operator of S-601, S-699, S-700, and/or S-819 shall determine the facility's total annual benzene quantity from facility waste within 90 days of achieving the maximum processing rate of 47,000 bpd, but no later than 180 days after the startup of Phase 3, i.e., the startup of S-1003 or S-1008 regardless of the capacity achieved, if applicable as defined in Part 9. Phase 3 is not required if the startup dates of S-1003 and S-1008 are within 90 days of each other since Phase 4 would be applicable. The owner/operator of S-601, S-699, S-700, and S-819 shall conduct a second test to determine the facility's total annual benzene quantity from facility waste within 90 days of achieving the maximum processing rate of 67,000 bpd, but no later than 180 days after the startup of Phase 4, regardless of the capacity achieved. The owner/operator shall determine total annual benzene quantity in accordance with 40 CFR Part 61, Subpart FF, §61.355. The results shall be submitted to the Air District's Engineering Division no later than 30 days from the date of the test to determine applicability to Subpart FF. After sampling is complete the Air District will confirm compliance with any applicable regulations and add any associated additional conditions as necessary to maintain compliance with any applicable regulatory requirements prior to issuance of the permit to operate.

(Basis: 40 CFR Part 61, Subpart FF, §61.340 - Applicability)

7. Within 180 days of the startup of each phase as defined in Part 9 of this permit condition or an alternative schedule approved by the Air District, the owner/operator of S-700, S-819, S-830, S-831, S-842, S-1026, S-2003, S-2010, S-2013, S-2016, and/or S-2017 shall determine the designation of process wastewater streams (Group 1 or Group 2) in accordance with §63.132 and 63.2485(c) and demonstrate compliance with Table 7 of 40 CFR Part 63, Subpart FFFF. The results shall be submitted to the Air District's Engineering Division no later than 30 days from the date of the test to determine applicable requirements from Subpart FFFF. After sampling is complete the Air District will confirm compliance with any applicable regulations and add any associated additional conditions as necessary to maintain compliance with any applicable regulatory requirements prior to issuance of the permit to operate.

(Basis: 40 CFR Part 63, Subpart FFFF, §63.2485 – Requirements for Wastewater Streams)

8. The owner/operator of S-919, S-920, S-928 through S-934, S-937, S-973, S-1511, and/or S-1512 shall demonstrate that fuel gas combusted at these sources qualifies as an "other gas 1 fuel," as defined in §63.7575, in accordance with procedures established in §63.7521(f) through (i) and according to the frequency listed in §63.7575(c) and maintain records of the results of the testing as outlined in §63.7555(g). If the initial sample does not qualify as an "other gas 1 fuel," sources listed in this Part are not considered units designed to burn gas 1 subcategory and shall be in compliance with the emission and operating limits for the appropriate subcategory in Subpart DDDDD. The results shall be submitted

to the Air District’s Engineering Division no later than 30 days from the date of the test to determine applicable requirements from Subpart DDDDD. After sampling is complete the Air District will confirm compliance with any applicable regulations and add any associated additional conditions as necessary to maintain compliance with any applicable regulatory requirements prior to issuance of the permit to operate.

(Basis: 40 CFR 63, Subpart DDDDD, §63.7530(g) – Initial Fuel Speciation Analysis, Recordkeeping).

Initial Compliance Demonstration:

9. For the purpose of initial compliance demonstration for the Renewable Fuels Project, initial startup of each phase is defined as when all systems/units listed are in operation and shall be started up at the same time, unless otherwise specified:

	Systems/Units in Operation	Processing Capacity (Maximum Daily)
Phase 1	S-850 (Diesel HDO Unit No. 3) S-1007 (Diesel Isomerization Unit) Associated downstream units Stage 2 Wastewater Treatment	23,000 bpd
Phase 2	S-2025 (Pretreatment Unit) Stage 1 Wastewater Treatment	23,000 bpd
Phase 3*	S-1003 (Diesel HDO Unit No. 2) or S-1008 (Diesel HDO Unit No. 1)	43,000 bpd or 47,000 bpd**
Phase 4	S-1003 (Diesel HDO Unit No. 2) and S-1008 (Diesel HDO Unit No. 1)	67,000 bpd***

* THE STARTUP DATE OF PHASE 3 IS DEFINED AS THE STARTUP OF EITHER S-1003 OR S-1008, WHICHEVER IS EARLIER. PHASE 3 IS NOT REQUIRED IF THE STARTUP DATES OF S-1003 AND S-1008 ARE WITHIN 90 DAYS OF EACH OTHER SINCE PHASE 4 WOULD BE APPLICABLE.

** 43,000 BPD IS THE MAXIMUM DAILY PROCESSING CAPACITY WHEN S-850 AND S-1003 ARE IN OPERATION. 47,000 BPD IS THE MAXIMUM DAILY PROCESSING CAPACITY WHEN S-850 AND S-1008 ARE IN OPERATION.

*** 67,000 BPD IS THE MAXIMUM DAILY PROCESSING CAPACITY WHEN S-850, S-1003, AND S-1008 ARE ALL IN OPERATION.

In an event that the definition of the startup of any phase is changed or redefined, the owner/operator shall notify the Air District’s Engineering Division to revise this part of the permit condition prior to conducting the initial compliance demonstration for that phase.

(Basis: Regulation 2-1-403 Permit Conditions)

10. The owner/operator shall conduct initial compliance source test on S-819 and S-1026 to demonstrate compliance with Permit Condition #7406, Parts B5 and B7. The owner/operator shall notify the Air District’s Compliance and Enforcement Division, Source Test Section, and Engineering Division at least seven days in advance of the initial compliance source test such that the Air District may observe during testing. The results shall be delivered to the Air District’s Source Test Section no later than 60 days from the date of the test. Initial compliance source test shall be conducted according to the following schedule:

- a. Within 90 days after achieving 23,000 bpd, but no later than 180 days after the startup date of Phase 1 regardless of the capacity achieved;
- b. Within 90 days after achieving 23,000 bpd, but no later than 180 days after the startup date of Phase 2 regardless of the capacity achieved;
- c. Within 90 days after achieving 43,000 or 47,000 bpd, but no later than 180 days after the startup date of Phase 3 regardless of the capacity achieved (if required per Part 9);
- d. Within 90 days after achieving 67,000 bpd, but no later than 180 days after the startup date of Phase 4 regardless of the capacity achieved;

Phase 3 is not required if the startup dates of S-1003 and S-1008 are within 90 days of each other since Phase 4 would be applicable.

(Basis: Regulation 2-2-301 BACT, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics)

11. The owner/operator shall conduct initial compliance source test on S-1511 and S-1512 in accordance with Permit Condition #23129, Part 26. The owner/operator shall notify the Air District's Compliance and Enforcement Division, Source Test Section, and Engineering Division at least seven days in advance of the initial compliance source test such that the Air District may observe during testing. The results shall be delivered to the Air District's Source Test Section no later than 60 days from the date of the test. Initial compliance source test shall be conducted according to the following schedule:

- a. Within 90 days after achieving 23,000 bpd, but no later than 180 days after the startup date of Phase 2 regardless of the capacity achieved;
- b. Within 90 days after achieving 43,000 or 47,000 bpd, but no later than 180 days after the startup date of Phase 3 regardless of the capacity achieved (if required per Part 9);
- c. Within 90 days after achieving 67,000 bpd, but no later than 180 days after the startup date of Phase 4 regardless of the capacity achieved;

Phase 3 is not required if the startup dates of S-1003 and S-1008 are within 90 days of each other since Phase 4 would be applicable.

(Basis: Regulation 2-1-403 Compliance Demonstration)

12. The owner/operator of S-2014 and S-2015 shall conduct an Air District approved source test for potential generation of hydrogen sulfide. Hydrogen sulfide emissions shall not equal or exceed acute and/or chronic risk screening trigger levels of 1.9E-02 lbs/hour and/or 3.9E+02 lbs/year, respectively. The owner/operator shall notify the Air District's Compliance and Enforcement Division, Source Test Section, and Engineering Division at least seven days in advance of the initial compliance source test such that the Air District may observe during testing. The results shall be delivered to the Air District's Source Test Section no later than 60 days from the date of the test. Initial compliance source test shall be conducted according to the following schedule:

- a. Within 90 days after achieving 23,000 bpd, but no later than 180 days after the startup date of Phase 2 regardless of the capacity achieved;
- b. Within 90 days after achieving 43,000 or 47,000 bpd, but no later than 180 days after the startup date of Phase 3 regardless of the capacity achieved (if required per Part 9);
- c. Within 90 days after achieving 67,000 bpd, but no later than 180 days after the startup date of Phase 4 regardless of the capacity achieved;

Phase 3 is not required if the startup dates of S-1003 and S-1008 are within 90 days of each other since Phase 4 would be applicable.

(Basis: Regulation 2-5 Toxics)

Material Speciation Lab Analyses:

13. Within 180 days of the startup of each phase or an alternative schedule approved by the Air District, the owner/operator shall conduct sampling and testing to determine the level of air toxics in the feed and product streams for the following process units: Hydrodeoxygenation Units (S-850, S-1003, S-1008), Diesel Isomerization Unit (S-1007), and No. 5 Gas Plant (S-1526). Sampling and testing shall be performed under normal operations for each feedstock (Soybean Oil, Corn Oil, Tallow). Sampling and testing shall be completed using ASTM D6730 light liquid and gas streams, or D2425 for heavy liquid streams, unless alternative sampling and testing methods are approved by the Air District. The owner/operator shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of sampling and testing. The report shall include the following:

- a. Material speciation lab results and testing method used for feed and product streams;
- b. Type of feedstock used during the sampling and testing;
- c. Feed/Processing Rate;
- d. Comparison between lab results and speciation profiles provided as part of the permit application 30768; and
- e. Reference to Permit Application #30768, Permit Condition #27583.

Prior to the issuance of the permit to operate, the Air District will use the sampling and testing results as detailed in Part 20 of this condition to verify material and/or process stream speciation assumptions and/or preliminary test data used in the engineering evaluation for the issuance of the authority to construct.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)

Wastewater Lab Analyses:

14. Within 180 days of the startup of each phase or an alternative schedule approved by the Air District, the owner/operator of S-323, S-699, S-700, S-819, S-830, S-831, S-842, S-1026, S-2001, S-2003, S-2010, S-2013, S-2016, S-2017, and S-2025 shall conduct sampling and testing to determine wastewater stream speciation using the following test methods, unless alternative sampling and testing methods are approved by the Air District: EPA Method 350.1, EPA Method 1664A, SM 4500-S2, EPA Method 420.4, and/or EPA Method 624.1. The owner/operator shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of sampling and testing. The report shall include the following:

- a. Wastewater stream lab results and testing method used;
- b. Type of feedstock used during the sampling and testing;
- c. Feed/Processing Rate and wastewater flow rate;
- d. Comparison between lab results and speciation profiles provided as part of the permit application AN 30768; and
- e. Reference to Permit Application #30768, Permit Condition #27583.

Prior to the issuance of the permit to operate, the Air District will use the sampling and testing results as detailed in Parts 20 and/or 24 of this condition to verify material and/or process stream speciation assumptions and/or preliminary test data used in the engineering evaluation for the issuance of the authority to construct.

(Basis: Regulation 2-1-403 Permit Conditions)

15. Within 180 days of the startup of each phase or an alternative schedule approved by the Air District, the owner/operator of S-656 and S-658 (Sour Water Tanks) shall conduct sampling and testing to determine sour water stream speciation using the following test methods, unless alternative sampling and testing methods are approved by the Air District: SW 8260B, Hach TNT 832, UOP 209-00B, EPA Method 610. The owner/operator shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of sampling and testing. The report shall include the following:

- a. Sour water stream lab results and testing method used;
- b. Type of feedstock used during the sampling and testing;
- c. Feed/Processing Rate;
- d. Comparison between lab results and speciation profiles provided as part of the permit application 30768; and
- e. Reference to Permit Application #30768, Permit Condition #27583.

Prior to the issuance of the permit to operate, the Air District will use the sampling and testing results as detailed in Part 20 of this condition to verify material and/or process stream speciation assumptions and/or preliminary test data used in the engineering evaluation for the issuance of the authority to construct.

(Basis: Regulation 2-1-403 Permit Conditions, Regulation 2-5 Toxics)

16. The owner/operator of S-1526 shall conduct sampling and testing to determine fuel gas composition and speciation using the following test methods, unless alternative sampling and testing methods are approved by the Air District: ASTM D7833 and ASTM D5504. The owner/operator shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of sampling and testing. Initial compliance test shall be conducted according to the following schedule:

- a. Within 90 days after achieving 23,000 bpd, but no later than 180 days after the startup date of Phase 1 regardless of the capacity achieved;
- b. Within 90 days after achieving 23,000 bpd, but no later than 180 days after the startup date of Phase 2 regardless of the capacity achieved;
- c. Within 90 days after achieving 43,000 or 47,000 bpd, but no later than 180 days after the startup date of Phase 3 regardless of the capacity achieved (if required per Part 9);
- d. Within 90 days after achieving 67,000 bpd, but no later than 180 days after the startup date of Phase 4 regardless of the capacity achieved;

Refer to Part 9 of this permit condition for the definition of each phase. Phase 3 is not required if the startup dates of S-1003 and S-1008 are within 90 days of each other since Phase 4 would be applicable.

Prior to the issuance of the permit to operate, the Air District will use the sampling and testing results as detailed in Part 20 of this condition to verify material and/or process stream speciation assumptions and/or preliminary test data used in the engineering evaluation for the issuance of the authority to construct.

(Basis: Regulation 2-1-403 Permit Conditions, Regulation 2-5 Toxics, Regulation 2-2-208 Cumulative Increase)

17. Within 180 days of the startup of each phase or an alternative schedule approved by the Air District, the owner/operator of S-846, S-976, S-978, S-980, S-982, and S-985 shall conduct sampling and testing for total hydrocarbon concentration to determine cooling tower water speciation using the following test methods, unless alternative sampling and testing methods are approved by the Air District: EPA Method 8015D. Alternatively, the owner/operator may use cooling tower water lab analysis results for compliance with Air District Regulation 11, Rule 10. The report shall be submitted to the Air District's Engineering Division no later than 60 days from the date of completion of sampling and testing. Prior to the issuance of the permit to operate, the Air District will use the sampling and testing results as detailed in Part 20 of this condition to verify material and/or process stream speciation assumptions

and/or preliminary test data used in the engineering evaluation for the issuance of the authority to construct.

(Basis: Regulation 2-1-403 Permit Conditions)

True Vapor Pressure of Renewable Diesel

18. On a weekly basis, the owner/operator of S-1007 shall use ASTM D6378 (or ASTM 2879) to determine the true vapor pressure of renewable diesel, such that the measured true vapor pressure is representative of the maximum true vapor pressure of renewable diesel for that week. The results shall be used to calculate emissions from renewable diesel loading operations and to demonstrate compliance with Permit Condition #26406, Part 4, at Avon Wharf (S-1560) and to confirm exemption status of Amorco Wharf (S-55, Plant #14629) via Permit Condition 22455, Parts 13 and 14. The owner/operator shall submit the results to the Air District's Engineering Division no later than 30 days after the twelfth month of testing. After twelve months of testing, the owner/operator may propose a change in testing frequency based on an established consistent true vapor pressure of renewable diesel from testing. Written approval by the Air District's Engineering Division must be received by the owner/operator prior to a change in testing schedule.

(Basis: Regulation 2-1-403 Permit Conditions, Regulations 2-1-301/302)

19. The owner/operator may develop an Air District approved correlation between true vapor pressure and initial boiling point using ASTM D86 to comply with the above condition. Prior to conducting any tests, the owner/operator shall submit a testing plan and obtain approval from the Air District's Engineering Division. The testing plan shall include the following:

- a. Testing schedule (i.e., number of tests/data points);
- b. Parameters and test methods;
- c. Acceptance criteria (i.e., correlated or uncorrelated);

The owner/operator shall obtain written approval from the Air District's Engineering Division prior to using the correlation, if any, for the determination of true vapor pressure.

(Basis: Regulation 2-1-403 Permit Conditions)

20. Prior to the issuance of the permit to operate for the sources listed in Parts 13, 14, 15, 16, and/or 17, sampling and testing results shall be used to verify material and/or process stream speciation assumptions and/or preliminary test data used in the engineering evaluation for the issuance of the authority to construct AN 30768. If the sampling and/or testing indicates any changes from the information used for the issuance of the authority to construct, the Air District may require changes to the permit conditions in order to address the changes and maintain compliance with any applicable regulatory requirements prior to issuance of the permit to operate. In addition, the health risk assessment conducted for the issuance of the authority to construct for the Renewable Fuels Project has identified benzene as the risk driver. If sampling and testing results exceed any of the emission rates listed below for any source, and/or identify any new toxic air contaminants not previously evaluated as part of the issuance of the authority to construct, the owner/operate shall conduct a health risk

assessment for the Renewable Fuels Project to demonstrate compliance with Regulation 2, Rule 5. The health risk assessment shall be submitted with the sampling and testing results, as specified in Parts 13, 14, 15, 16, and 17, to the Air District's Engineering Division no later than 60 days from the date of completion of sampling and testing. Exceeding any of the emission rates below is not considered a violation provided that the owner/operator can demonstrate compliance with Regulation 2-5-302 project risk requirements.

Source No.	Benzene (lbs/hour)	Benzene (lbs/year)
S-432	6.5E-03	4.2E+01
S-651	3.7E-03	1.5E+01
S-850	3.2E-03	2.8E+01
S-1003	2.6E-03	2.3E+01
S-1008	1.9E-03	1.7E+01
S-1496	5.4E-04	4.6E+00
S-1526	5.9E-03	5.2E+01
S-1600/A-2000	3.9E-06	3.4E-02
S-2003	1.1E-04	9.7E-01
S-2016	1.7E-02	1.5E+02
S-2017	1.7E-02	1.5E+02

(Basis: Regulation 2-1-403 Permit Conditions, Regulation 2-5 Toxics)

21. The owner/operator of the Renewable Fuels Project shall document, monitor, and maintain the following records to demonstrate the non-applicability determination of a major modification (as defined in Regulation 2-1-234):

- a. Description of the project;
- b. Identification of all of the sources associated with the Renewable Fuels Project;
- c. Description of the applicability calculations used to determine that the Renewable Fuels Project is not a "major modification" for that pollutant, including baseline actual emissions, projected actual emissions, and any "netting" that was used; and
- d. Monitor and keep a record of emissions at each source associated with the Renewable Fuels Project (in tons per year on a calendar year basis).

These records shall be kept on-site for at least 5 years. All records shall be recorded in an Air District approved log and made available for inspection by Air District staff upon request.

After 5 calendar years of operation at Phase 4 (as defined in Part 9), the owner/operator shall submit a report to the Air District's Engineering Division and EPA stating (i) the facility name, address, telephone number, Application No. 30768, and (ii) the annual emissions for all sources associated with the Renewable Fuels Project to verify that the Renewable Fuels Project is not a major modification.

(Basis: Regulation 2-1-234.2 Increase Over Actual Emissions Baseline)

22. The owner/operator of S-1468, S-2002, S-2004, S-2005, S-2006, S-2014, S-2015, S-2016, S-2017, S-2018, S-2022, S-2024, and/or S-2026 shall conduct monthly sampling to ensure aqueous solution contains less than 1 percent (by weight) organic compounds.

(Basis: Regulation 2-1-123.2)

23. Within 180 days of the startup of each phase as defined in Part 9 or an alternative schedule approved by the Air District, the owner/operator of S-700 shall conduct sampling and testing to determine the true vapor pressure of the material stored in S-700. The true vapor pressure of the material does not exceed 0.5 psia. The owner/operator of S-700 shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of sampling and testing.

(Basis: Regulation 8-5-117 Limited Exemption)

24. Prior to the issuance of the permit to operate for S-819, S-830, S-831, S-842, S-1026, S-2001, S-2003, S-2010, S-2013, S-2016, and/or S-2017, the owner/operator shall estimate emissions from the wastewater treatment plant based on design information (flow rates, equipment configuration, etc.) and facility-specific wastewater stream data from Part 14 of this condition. The owner/operator of S-819, S-830, S-831, S-842, S-1026, S-2001, S-2003, S-2010, S-2013, S-2016, and/or S-2017 shall estimate emissions at a maximum daily flowrate of 600 gpm and annual flowrate of 450 gpm using Toxchem wastewater treatment air emission estimation software. The owner/operator shall use the results to demonstrate compliance with Permit Condition #27610, Parts 3 through 6. In addition, the owner/operator shall use the results to evaluate the impact to the health risk assessment as specified in Part 20 of this condition. The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 120 days from the date of completion of sampling and testing from Part 14 of this condition. If the sampling and/or testing indicates any changes from the information used for the issuance of the authority to construct, the Air District may require changes to the permit conditions in order to address the changes and maintain compliance with any applicable regulatory requirements prior to issuance of the permit to operate.

(Basis: Regulation 2-1-403 Permit Conditions, Regulation 2-5 Toxics)

25. The owner/operator shall maintain, update and implement the Odor Prevention and Management Plan as reviewed and approved by the Air District and County of Contra Costa.

(Basis: Regulation 2-1-403 Permit Condition, CEQA)

Condition 27584

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.

S-850 Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit)

S-1002 Propane Dryers (formerly No. 1 HDS Unit)

S-1003 Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)

S-1007 Diesel Isomerization Unit (formerly 2nd Stage Hydrocracker Unit)

S-1008 Diesel HDO Unit No. 1 (formerly 1st Stage Hydrocracker Unit)

S-2025 Pretreatment Unit

1. The owner/operator shall ensure that Diesel Hydrodeoxygenation (HDO) Units S-850, S-1003, and/or S-1008 do not process more than 67,000 barrels of feedstock per calendar day combined and/or 17,520,000 barrels combined in any consecutive 12 month period.
(Basis: Regulation 2-2-208 Cumulative Increase)
2. The owner/operator of S-850 shall not exceed a processing rate of 23,000 barrels of feedstock per calendar day and/or 7,300,000 barrels in any consecutive 12 month period. (Basis: Regulation 2-2-208 Cumulative Increase)
3. The owner/operator of S-1003 shall not exceed a processing rate of 20,000 barrels of feedstock per calendar day and/or 6,570,000 barrels in any consecutive 12 month period.
(Basis: Regulation 2-2-208 Cumulative Increase)
4. The owner/operator of S-1008 shall not exceed a processing rate of 24,000 barrels of feedstock per calendar day and/or 7,300,000 barrels in any consecutive 12 month period.
(Basis: Regulation 2-2-208 Cumulative Increase)
5. The owner/operator shall ensure that the throughput for Propane Dryers S-1002 does not exceed 6,000 barrels of renewable propane per calendar day and/or 1,460,000 barrels of renewable propane in any consecutive rolling 12 month period.
(Basis: Regulation 2-2-208 Cumulative Increase)
6. 6. The owner/operator shall ensure that the throughput for the Diesel Isomerization Unit S-1007 does not exceed 58,000 barrels of renewable diesel per calendar day and/or 48,000 barrels of renewable diesel, based on a rolling 365 day average.
(Basis: Regulation 2-2-208 Cumulative Increase)
7. The owner/operator of S-2025 shall not exceed a processing rate of 48,000 barrels of feedstock per calendar day and/or 17,520,000 barrels of feedstock in any consecutive rolling 12 month period.
(Basis: Regulation 2-2-208 Cumulative Increase)
8. To determine compliance with the above condition(s), the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:
 - a. On a calendar day basis, type and amount of feedstock processed at each S-850, S-1003, and/or S-1008.
 - b. On a calendar day basis, amount of renewable propane processed at S-1002.
 - c. On a calendar day basis, amount of renewable diesel processed at S-1007.
 - d. On a calendar day basis, type and amount of feedstock processed at S-2025.
 - e. On a calendar day basis, the amount of material processed at each S-850, S-1003, S-1008, and/or S-1007, based on a rolling 365 day average.

These records shall be kept on-site for at least 5 years. All records shall be recorded in an Air District approved log and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable Air District Regulations.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)

9. The owner/operator of S-2025 shall not discharge any odorous substance which causes the ambient air at or beyond the property line to be odorous.

(Basis: Regulation 7, Regulation 1-301)

Condition 27585

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
S-1526 No. 5 Gas Plant, Abated by A-2001 H₂S Adsorption Vessels

1. The owner/operator shall ensure that the No. 5 Gas Plant S-1526 does not produce more than 9,000 barrels of renewable propane and renewable naphtha per calendar day combined and/or 1,825,000 barrels of renewable propane and renewable naphtha in any consecutive twelve month period.

(Basis: Regulation 2-2-208 Cumulative Increase)

2. The owner/operator shall ensure that the processing rate for the No. 5 Gas Plant S-1526 does not exceed 40 MMscf per calendar day.

(Basis: Regulation 2-2-208 Cumulative Increase)

3. The owner/operator of S-1526 shall ensure that the C-1 Deethanizer and C-3 Depropanizer are abated by A-2001 H₂S Adsorption Vessels at all times.

(Basis: Regulation 2-5 Toxics)

4. The owner/operator of S-1526 shall ensure vapors from all vent streams are recovered and sent to the fuel gas system for combustion at S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, S-973, S-1511, S-1512, and/or A-1584 with a minimum VOC destruction efficiency of 98% by weight.

(Basis: Table 1 of 40 CFR Part 63, Subpart FFFF)

5. To determine compliance with the above condition(s), the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

a. On a calendar day basis, amount of each renewable propane and renewable naphtha produced at S-1526;

b. On a calendar day basis, amount of renewable propane and renewable naphtha produced combined at S-1526;

- c. On a consecutive 12 month basis, the amount of each renewable propane and renewable naphtha produced at S-1526;
- d. On a consecutive 12 month basis, the amount of renewable propane and renewable naphtha produced combined at S-1526;
- e. On a calendar day basis, amount of gas processed at S-1526;

These records shall be kept on-site for at least 5 years. All records shall be recorded in a District approved log and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping Requirements contained in any applicable District Regulations.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)

Condition 27586

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
S-1600 Foul Water Strippers, Abated by A-2002 H₂S Adsorption Vessels and A-2000 Sour Water Stripper Thermal Oxidizer

1. The owner/operator of S-1600 shall ensure that throughput does not exceed 13,706,224 barrels in any consecutive 12 month period and/or 47,870 barrels per calendar day.
(Basis: Regulation 2-2-208 Cumulative Increase)
2. The owner/operator shall ensure that S-1600 is abated by A-2002 H₂S Adsorption Vessels and A-2000 Thermal Oxidizer at all times.
(Basis: Regulation 2-2-208 Cumulative Increase)
3. The owner/operator of S-1600 shall ensure that no hydrogen sulfide emissions are emitted into the atmosphere, measured at the outlet of A-2000.
(Basis: Regulation 2-5 Toxics)
4. The owner/operator of S-1600 shall ensure that ammonia does not exceed 0.11 lbs/hour and/or 963.6 lbs in any consecutive 12 month period, measured at the outlet of A-2000.
(Basis: Regulation 2-5 Toxics)
5. The owner/operator of S-1600 shall ensure that sulfuric acid mist does not exceed 7.9E-04 lbs/hour and/or 6.9 lbs in any consecutive 12 month period, measured at the outlet of A-2000.
(Basis: Regulation 2-5 Toxics)
6. The owner/operator of S-1600 shall conduct initial compliance source test to demonstrate compliance with Parts 3, 4 and 5. The owner/operator shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of testing. Initial compliance source test shall be conducted according to the following schedule:

- a. Within 60 to 120 days after the startup of S-1600.
- b. Within 60 to 120 days after the first H₂S Adsorbent change-out in Phase 3, if applicable per Permit Condition 27583, Part 9.
- c. Within 60 to 120 days after the first H₂S Adsorbent change-out in Phase 4.

Phase 3 is not required if the startup dates of S-1003 and S-1008 are within 90 days of each other since Phase 4 would be applicable.

(Basis: Regulation 2-5 Toxics)

Condition 27587

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project. Imposed throughput limits.

S-115 Bulk Plant (truck/rail); Caustic waste

S-601 Tank A-601, IFRT, Recovered Oil, Gas Oil

S-650 Tank A-650, EFRT, Sour Waste Water

S-692 Tank A-692, EFRT, Gasoline, Renewable Naphtha Storage Tank

S-699 Tank A-699, FRT, White, API Separator Recovered Oil, A-14 Vapor Recovery

S-700 Tank 2-A-700, FRT, Light grey, API Separator Sludge

S-819 API Oil-Water, Separator/Dissolved Nitrogen Flotation System, Abated by A-39 Thermal Oxidizer or A-14 Vapor Recovery

S-830 Wastewater Surge Ponds

S-831 Bio-Oxidation Pond Open Pond

S-842 Wastewater Treatment Plant Clarifiers, filters, and granular activated carbon

S-846 No. 3 HDS Cooling Tower

S-976 No. 5 Gas Plant Cooling Tower

S-978 Foul Water Stripper Cooling Tower

S-980 Hydrocracker Cooling Tower

S-985 No. 1 Gas Plant Cooling Tower

1. The owner/operator of S-115 shall ensure that caustic waste loading does not exceed 84,621 barrels in any consecutive 12 month period and/or 12,871 barrels in any consecutive 24 hour period. The owner/operator of S-115 shall not load any other material other than caustic waste.
(Basis: Regulation 2-2-208 Cumulative Increase)

2. The owner/operator of S-601 shall ensure that throughput does not exceed 243,882 barrels in any consecutive 12 month period and/or 6,105 barrels in any consecutive 24 hour period.
(Basis: Regulation 2-2-208 Cumulative Increase)

3. The owner/operator of S-650 shall ensure that throughput does not exceed 743,831 barrels in any consecutive 12 month period and/or 81,751 barrels in any consecutive 24 hour period.
(Basis: Regulation 2-2-208 Cumulative Increase)

4. The owner/operator of S-692 shall not exceed the following throughput limits during any consecutive 12 month period:

Gasoline and Renewable Naphtha – 2,650,447 barrels (111,318,774 gallons) in any consecutive 12 month period.

Gasoline and Renewable Naphtha – 54,882 barrels (2,305,044 gallons) in any consecutive 24 hour period.

Renewable Naphtha – 365,000 barrels (15,330,000 gallons) in any consecutive 12 month period.

Renewable Naphtha – 54,882 barrels (2,305,044 gallons) in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

5. The owner/operator of S-699 shall ensure that throughput does not exceed 522,234 barrels in any consecutive 12 month period and/or 14,982 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

6. The owner/operator of S-700 shall ensure that throughput does not exceed 1,166,667 barrels in any consecutive 12 month period and/or 23,039 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

7. The owner/operator of S-846 shall ensure that the total cooling tower water recirculation rate shall not exceed 6,500 gallons per minute.

(Basis: Regulation 2-2-208 Cumulative Increase)

8. The owner/operator of S-976 shall ensure that the total cooling tower water recirculation rate shall not exceed 64,500 gallons per minute.

(Basis: Regulation 2-2-208 Cumulative Increase)

9. The owner/operator of S-978 shall ensure that the total cooling tower water recirculation rate shall not exceed 5,200 gallons per minute.

(Basis: Regulation 2-2-208 Cumulative Increase)

10. The owner/operator of S-980 shall ensure that the total cooling tower water recirculation rate shall not exceed 14,028 gallons per minute.

(Basis: Regulation 2-2-208 Cumulative Increase)

11. The owner/operator of S-985 shall ensure that the total cooling tower water recirculation rate shall not exceed 5,500 gallons per minute.

(Basis: Regulation 2-2-208 Cumulative Increase)

12. The owner/operator of S-819 shall ensure that throughput shall not exceed 32,537,143 barrels in any consecutive 12 month period and/or 435,936 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

13. The owner/operator of S-830 shall ensure that throughput shall not exceed 35,522,066 barrels in any consecutive 12 month period and/or 319,476 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

14. The owner/operator of S-831 shall ensure that throughput shall not exceed 35,522,066 barrels in any consecutive 12 month period and/or 319,476 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

15. The owner/operator of S-842 shall ensure that throughput shall not exceed 35,522,066 barrels in any consecutive 12 month period and/or 319,476 barrels in any consecutive 24 hour period.

(Basis: Regulation 2-2-208 Cumulative Increase)

16. The owner/operator of S-846, S-976, S-978, S-980, and/or S-985 shall monitor the cooling tower water recirculation rate using strap-on flow meters or other method pre-approved by the Air District on a monthly basis in order to demonstrate compliance with parts, 7, 8, 9, 10, and 11. In addition, the owner/operator of S-976 shall continue to monitor the cooling water recirculation rate using a continuous flow meter. After three years of operation (36 tests), the owner/operator of S-846, S-976, S-978, S-980, and/or S-985 may propose for Air District approval a change in monitoring frequency based on established consistent and steady flow rates.

17. To determine compliance with the above condition(s), the owner/operator of S-115, S-601, S-650, S-692, S-699, S-700, S-819, S-830, S-831, S-842, S-846, S-976, S-978, S-980, and S-985 shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. Daily (calendar day) and monthly records of the type and amount of throughput at each source, total on a consecutive 12 month period.
- b. Daily record of the cooling tower water recirculation rate at each source above and the basis for the recirculation rate used, i.e., S-976 has a continuous flow meter, the other sources shall use the higher of either the maximum recirculation rate or the measured rate per part 16.
- c. The maximum recirculation rate at each Cooling Tower S-846, S-976, S-978, S-980, and S-985 as determined by either flow meter (S-976) and/or part 17.

These records shall be kept on-site for at least 5 years. All records shall be recorded in an Air District approved log and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable Air District Regulations.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)

Condition 27591

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
A-2000 Sour Water Stripper Off-Gas Thermal Oxidizer, Abating S-1600 Foul Water Strippers

1. The owner/operator shall abate emissions from Source S-1600 with Abatement device A-2000 Thermal Oxidizer during all periods of operation. The owner/operator of S-1600 shall not exceed a vapor flow rate of 140 dscfm.

(Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)

2. The owner/operator of S-1600 shall operate A-2000 to meet the following VOC destruction efficiency requirements:

- a. A-2000 outlet VOC concentration of 10 ppmv or less; or
- b. All of the following standards depending on the applicable A-2000 inlet VOC concentration:
 - c. VOC destruction efficiency > 98.5% if A-2000 inlet VOC concentration > 2,000 ppmv;
 - d. VOC destruction efficiency > 97% if A-2000 inlet VOC concentration > 200 to < 2,000 ppmv;
 - e. VOC destruction efficiency > 90% if A-2000 inlet VOC concentration < 200 ppmv.

(Basis: Regulation 2-2-208 Cumulative Increase)

3. The owner/operator of S-1600 shall operate A-2000 to meet a minimum ammonia destruction efficiency of 99.9%.

(Basis: Regulation 2-5 Toxics)

4. The owner/operator shall operate A-2000 to be at least 2,100 degrees F at the first furnace (Reduction furnace). The Air District may adjust this minimum temperature, if source test data demonstrates to the satisfaction of the Air District that an alternate temperature is necessary for or capable of maintaining compliance with Parts 2 and 3 above.

(Basis: Regulation 2-2-208 Cumulative Increase)

5. To determine compliance with the temperature requirement in these permit conditions, the owner/operator of S-1600 shall equip A-2000 with a temperature measuring device capable of continuously measuring and recording the temperature in A-2000. The owner/operator shall install, and maintain in accordance with manufacturer's recommendations, a temperature measuring device that meets the following criteria: the minimum and maximum measurable temperatures with the device are 0 degrees F and 2,500 degrees F, respectively, and the minimum accuracy of the device over this temperature range shall be 1.0 percent of full-scale.

(Basis: Regulation 2-2-208 Cumulative Increase)

6. The owner/operator of S-1600 shall report any non-compliance with Part 4 of this condition to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)

7. The temperature limit in Part 4 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)

8. For each Allowable Temperature Excursion that exceeds 20 degrees F and 15 minutes in duration, the owner/operator shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five (or two years) years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

- a. Temperature controller setpoint;
- b. Starting date and time, and duration of each Allowable Temperature Excursion;
- c. Measured temperature during each Allowable Temperature Excursion;
- d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year; and
- e. All strip charts or other temperature records.

(Basis: Regulation 2-1-403)

9. Not later than 60 days from the startup of A-2000, the owner/operator of S-1600 shall conduct District-approved source tests to determine initial compliance with the limits in Parts 1, 2, 3, and 4 for vapor flowrate, VOC concentration/destruction efficiency, ammonia destruction efficiency, and temperature, respectively. The owner/operator shall submit the source test results to the Air District’s Source Test Section no later than 60 days after the source test. The owner/operator of A-2000 shall repeat the source tests once every 2 years.

(Basis: Regulation 2-2-208 Cumulative Increase)

10. The owner/operator of S-1600 shall obtain approval for all source test procedures from the Air District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements as specified in Volume IV of the District's Manual of Procedures. The owner/operator shall notify the Air District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing.

(Basis: Regulation 2-2-208 Cumulative Increase)

11. Prior to startup, the owner/operator of A-2000, shall submit final design specifications/vendor documentation to the Air District's Engineering Division.

(Basis: Regulation 2-1-403)

12. The owner/operator of A-2000 shall not exceed the following emission limits:

NOx 0.197 lbs/MMBtu or 50 ppmv at 15% O2 (averaged on 1-hour basis)

CO 0.030 lbs/MMBtu or 10 ppmv at 15% O2 (averaged on 1-hour basis)

SO2 0.204 lbs/MMBtu or 40 ppmv at 15% O2 (averaged on 1-hour basis)

(Basis: Regulation 2-2-208 Cumulative Increase)

13. The owner/operator of A-2000 shall ensure that emissions, including startups, shutdowns, upsets, and malfunctions, from A-2000, do not exceed the following limits in any consecutive 12 month period:

- | | | | |
|----|---------------------|------------|---------------------------------------|
| a. | SO2: | 1.708 tons | (Basis: Cumulative Increase, Offsets) |
| b. | NOx: | 1.651 tons | (Basis: Cumulative Increase, Offsets) |
| c. | CO: | 0.251 tons | (Basis: Cumulative Increase) |
| d. | POC: | 0.045 tons | (Basis: Cumulative Increase, Offsets) |
| e. | PM10: | 0.062 tons | (Basis: Cumulative Increase, Offsets) |
| f. | PM2.5 | 0.062 tons | (Basis: Cumulative Increase, Offsets) |
| g. | Sulfuric Acid Mist: | 0.003 tons | (Basis: Regulation 2, Rule 5) |
| h. | H2S: | 0.000 tons | (Basis: Regulation 2, Rule 5) |
| i. | NH3: | 0.482 tons | (Basis: Regulation 2, Rule 5) |

14. Not later than 60 days from the startup of A-2000, the owner/operator shall conduct Air District-approved source tests to determine initial compliance with the limits in Part 12. During source testing, every test run shall be at least one hour. The owner/operator of A-2000 shall submit the source test results to the Air District's Source Test Section no later than 60 days after the source test. To demonstrate compliance with Part 13, the owner/operate shall record the natural gas usage on a monthly and rolling 12 consecutive month basis in an Air District approved log, in units of MMBtu per month and consecutive 12 month period, respectively, and perform emissions calculations for each pollutant identified in Part 13 using the latest approved source test emission factors, in units of lbs/MMBtu multiplied by the natural gas usage in MMBtu per consecutive 12 month period. If source

test is not available for POC, PM10, and/ PM2.5, the owner/operator may use emission factors from EPA AP-42, Table 1-4.2. The owner/operator of A-2000 shall repeat the source tests once every 2 years.
(Basis: Regulation 2-2-208 Cumulative Increase)

15. To determine compliance with the above condition(s), the owner/operator shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions, including, but not necessarily limited to, the following information:

- a. Continuous temperature records for A-2000 per Part 4.
- b. Record of all source test results and emission calculations per Parts 1, 2, 3, 12, and 13.

These records shall be kept on-site for at least 5 years. All records shall be recorded in an Air District approved log and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 1-441)

Condition 27592

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
A-2001 H2S Adsorption Vessels #1 abating S-1526 No. 5 Gas Plant, two vessels setup in series

1. The owner/operator shall vent Source S-1526 at all times to Abatement Device A-2001, two H2S Adsorbent vessels arranged in series. Subsequently, the vapor from A-2001 shall be routed to the fuel gas system and combusted in boilers or heaters, or to the No. 1 Hydrogen Plant (S-1005) as feed. Influent vapor flow shall not exceed 28,000 scfm.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)

2. The owner/operator of A-2001 shall monitor H2S with a continuous H2S analyzer in the fuel gas mixpot, or with an Air District approved handheld H2S monitor when continuous H2S analyzer malfunctions and/or is temporarily out of service due to routine maintenance, at the outlet of vessel that is last in series.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)

3. The owner/operator of A-2001 shall record these monitor readings in a monitoring log at all times. The monitoring results shall be used to estimate the frequency of H2S Adsorbent change-out necessary to maintain compliance with conditions number 4 and 5 and shall be conducted on either a continuous or daily basis when continuous H2S analyzer malfunctions or is temporarily out of service for routine maintenance at the locations identified in Part 2. The owner/operator of A-2001 may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in emissions and/or the demonstrated breakthrough rates of the H2S Adsorbent vessels. Written approval by the District's Engineering Division shall be received by the owner/operator prior to a change to the monitoring schedule.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-1-403 Permit Conditions)

4. The owner/operator of A-2001 shall change out the second to last H2S vessel with unspent H2S Adsorbent upon breakthrough, defined as the detection at its outlet of the higher of the following:
 - a. 50 % of the inlet stream concentration to the H2S Adsorbent vessel.
 - b. 250 ppmv or greater (measured as H2S).(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)
5. The owner/operator of A-2001 shall change out the last H2S Adsorbent vessel with unspent H2S Adsorbent upon detection at its outlet of 35 ppmv or greater (measured as H2S).
(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics)
6. The owner/operator of A-2001 shall maintain the following records for each month of operation of the sources:
 - a. The hours and times of operation.
 - b. Each monitor reading or analysis result for the day of operation they are taken.
 - c. The type of monitoring used.
 - d. Date, time, and the number H2S Adsorbent beds removed from service.
 - e. Date and time of any H2S analyzer malfunctions and/or maintenance and when it returned to service.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the Air District for at least five years following the date the data is recorded.

(Basis: Regulation 2-2-208 Cumulative Increase)

7. The owner/operator of A-2001 shall report any non-compliance with parts 3, 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.

(Basis: Regulation 2-2-208 Cumulative Increase)

Condition 27593

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.

A-2002 H2S Adsorption Vessels #2 abating S-1600 Foul Water Strippers, consisting of two vessels setup in series

1. The owner/operator shall vent Source S-1600 at all times to Abatement Device A-2002, two H2S Adsorbent vessels arranged in series. Subsequently, the vapor from A-2002 shall be abated by A-2000 Thermal Oxidizer. Influent vapor flow shall not exceed 140 dscfm limit established in Permit Condition #27591, Part 1. (Basis: Regulation 2-2-208 Cumulative Increase)

2. The owner/operator of A-2002 shall monitor H₂S by conducting sampling and testing using gas chromatography following ASTM Method D5504, or other Air District approved method, at the following locations and frequencies:

- a. At the inlet to the second to last H₂S Adsorbent vessel in series on a monthly basis.
- b. At the inlet to the last H₂S Adsorbent vessel in series on a daily basis (Monday thru Friday).
- c. At the outlet of the last H₂S Adsorbent vessel in series prior to venting to the thermal oxidizer (A-2000) on a daily basis (Monday thru Friday).

The owner/operator of A-2002 may use a handheld monitor (Industrial Scientific MX6 iBrid Multi-Gas Monitor), or other Air District approved handheld H₂S monitor, as a backup to the daily sampling system. In addition, the owner/operator of A-2002 shall perform material balance at S-1600 to obtain sulfur load to adsorbers on a weekly basis. The owner/operator of A-2002 shall use the higher of the actual monthly inlet sampling and testing data in Part 2a and weekly material balance analysis. If the outlet sampling and testing data in Part 2c, as conducted by the owner/operator and/or the Air District, exceeds the limit established in Part 5 two times within any consecutive 5-year period, then the owner/operator of A-2002 shall install an Air District approved continuous SO₂ emissions monitoring system at the outlet of the thermal oxidizer (A-2000) within 90 days of the second exceedance. Any missed sampling and testing shall count as one exceedance. In addition, when a handheld monitor is used, readings shall be stored and recorded in a data logger/docking station. Handwritten records from a handheld monitor are inadequate to demonstrate compliance with Part 5, and shall count as one exceedance. The date of the second exceedance of the part 5 limit shall serve as notice to install the SO₂ CEM at the outlet of the thermal oxidizer (A-2000). Any exceedance of the part 5 limit may also be subject to potential enforcement action.

3. The owner/operator of A-2002 shall record these monitor readings in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of H₂S Adsorbent change-out necessary to maintain compliance with conditions number 4 and 5, and shall be conducted either on a monthly basis and/or daily basis as specified in Part 2 above. The owner/operator of A-2002 may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in emissions and/or the demonstrated breakthrough rates of the H₂S Adsorbent vessels. Written approval by the District's Engineering Division shall be received by the owner/operator prior to a change to the monitoring schedule.

(Basis: Regulation 2-2-208 Cumulative Increase)

4. The owner/operator of A-2002 shall change out the second to last H₂S Adsorbent vessel with unspent H₂S Adsorbent upon breakthrough, defined as the detection at its outlet of the higher of the following:

- a. 50 % of the inlet stream concentration to the H₂S vessel.

b. 250 ppmv or greater (measured as H₂S).
(Basis: Regulation 2-2-208 Cumulative Increase)

5. The owner/operator of A-2002 shall change out the last H₂S Adsorbent vessel with unspent H₂S Adsorbent prior to breakthrough, defined as the detection at its outlet of 250 ppmv (measured as H₂S). The owner/operator of A-2002 shall ensure that the H₂S concentration at outlet of the last H₂S Adsorbent vessel does not exceed 250 ppmv (measured as H₂S).
(Basis: Regulation 2-2-208 Cumulative Increase)

6. The owner/operator of A-2002 shall maintain the following records for each month of operation of the sources:

- a. The hours and times of operation.
- b. Each monitor reading or analysis result for the day of operation they are taken.
- c. The type of monitoring used.
- d. Date, time, and the number of H₂S Adsorbent beds removed from service.
- e. Weekly material balance analysis of sulfur load to adsorbers.
- f. When a handheld monitor is used as specified in Part 2, each monitor reading shall be stored and recorded in a data logger/docking station. Handwritten records are not acceptable.

All measurements, records and data required to be maintained by the owner/operator shall be retained and made available for inspection by the Air District for at least five years following the date the data is recorded.

(Basis: Regulation 2-2-208 Cumulative Increase)

7. The owner/operator of A-2002 shall report any non-compliance with parts 3, 4 and/or 5 to the Director of the Compliance & Enforcement Division at the time that it is discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well at the time of occurrence.

(Basis: Regulation 2-2-208 Cumulative Increase)

Condition 27596

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.

S-850 Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit)

S-1003 Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)

S-1007 Diesel Isomerization Unit (formerly 2nd Stage Hydrocracker Unit)

S-1008 Diesel HDO Unit No. 1 (formerly 1st Stage Hydrocracker Unit)

S-1526 No. 5 Gas Plant, Abated by A-2001 H₂S Adsorption Vessels

S-1600 Foul Water Strippers, Abated by A-2002 H₂S Adsorption Vessels and A-2000 Thermal Oxidizer

S-2001 Stage 1 Wastewater Treatment Unit

S-2025 Pretreatment Unit

1. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and S-2025 shall install only the following types of valves: (1) bellows sealed, (2) live loaded, (3) graphitic packed, (4) quarter-turn (e.g., ball valves or plug valves), or equivalent as determined by the APCO. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-301 BACT, Regulation 2-2-302 Offsets)
2. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall comply with a leak standard of 100 ppm of Total Organic Compounds (TOC) measured as C1 at any valve installed unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. (Basis: Regulation 2-2-301 BACT, Regulation 8-18)
3. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and S-2025 shall install graphitic-based gaskets on all flanges or connectors (gasketed) or equivalent as determined by the APCO, or the owner/operator demonstrates to the satisfaction of the APCO that the service requirements prevent this gasket material from being used. (Basis: Regulation 2-2-301 BACT)
4. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any flanges/connectors unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. (Basis: Regulation 2-2-301 BACT, Regulation 8-18)
5. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall install double mechanical seals w/ barrier fluid; magnetically coupled pumps; canned pumps; magnetic fluid sealing technology; seal system with leakage vented to thermal oxidizer; or other BAAQMD approved equivalent control device; or Air District approved control technology as determined by the APCO on all new/replaced pumps. The typical technologies listed above are not required for the following new/replaced pumps:

Tag Number	Description
004-P-10771	Sulfiding Agent Injection Pump
004-P-10772	Sulfiding Agent Injection Pump
067-P-10727	Sulfiding Agent Injection Pump
120-P-10734	Demulsifier Metering Pump
120-P-10735	Demulsifier Metering Pump
120-P-10736	Citric Acid Feed Pump
120-P-10737	Citric Acid Feed Pump
076-P-10725	Sulfiding Agent Injection Pump
120-P-10781	Lube Oil Pump
120-P-10782	Lube Oil Pump
120-P-10783	Lube Oil Pump
120-P-10784	Lube Oil Pump

All pumps shall be subject to the Part 14 inspection frequency. If any of the 12 pumps listed above is determined to have a leak greater than 100 ppm of TOC (measured as C1) and if the leak remains greater than 100 ppm of TOC (measured as C1) after repair, or if the pump is determined to have a leak greater than 100 ppm of TOC (measured as C1) a second time within a 5-year period, then the

owner/operator shall install double mechanical seals w/ barrier fluid; magnetically coupled pumps; canned pumps; magnetic fluid sealing technology; seal system with leakage vented to thermal oxidizer; or other BAAQMD approved equivalent control device; or Air District approved control technology as determined by the APCO within 5 years or at the next schedule turnaround, whichever is sooner. (Basis: Regulation 2-2-301 BACT)

6. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any new/replaced pump (except pumps listed in Part 5) unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. (Basis: Regulation 2-2-301 BACT)

7. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall install double mechanical seals w/ barrier fluid; gas seal system vented to a thermal oxidizer or other BAAQMD approved control device; or Air District approved control technology as determined by the APCO on all compressors. All compressors shall be subject to the Part 14 inspection frequency. (Basis: Regulation 2-2-301 BACT)

8. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall comply with a leak standard of 100 ppm of TOC (measured as C1) at any compressor unless the owner/operator complies with the applicable minimization and repair provisions contained in Regulation 8-18. (Basis: Regulation 2-2-301 BACT)

9. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall ensure that each pressure relief device (PRD) installed is vented back to the process, to the fuel gas system, or to an abatement device with a capture and destruction efficiency of at least 98% by weight.

10. The owner/operator shall implement the following for each new and replaced pressure relief device (PRD) installed at S-850, S-1003, S-1008, S-1526, S-1600, S-2001, and/or S-2025 connected to a flare gas recovery system:

a. The owner/operator shall operate an Air District approved continuous monitoring system that detects PRD discharges to the flare gas recovery system. Acceptable monitoring methods include, but are not limited to, continuous pressure, temperature, flow, or molecular weight measurement provided that the monitoring type is Air District approved.

b. When a PRD discharge is detected and the PRD does not reseal, the owner/operator shall attempt to reseal, repair or replace the PRD as soon as possible while taking into account both safety and feasibility concerns. If the owner/operator determines the PRD cannot be safely resealed, repaired or replaced without causing a process unit or equipment shutdown, the owner/operator shall repair or replace the PRD at the next planned process unit turnaround.

c. Within 90 days of approval of the ATC, the owner/operator shall develop and maintain a Pressure Relief Device (PRD) Leak Detection and Troubleshooting Guideline that details the site-specific response procedures that will be employed to minimize PRD discharge as much as practicable. The Guideline shall be made available to the Air District for inspection.

d. To determine compliance with the above conditions, the owner/operator of S-850, S-1003, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall maintain the following records and provide all of the data necessary to evaluate compliance with Part b:

i. Date of each PRD discharge detected that does not reseal;

ii. Date of final repair or replacement;

iii. List of each PRD in which repair has been delayed to the next planned process unit turnaround;

iv. Reason for non-repairable determination; and.

v. Documentation of any safety and/or feasibility concerns associated with any repair or replacement.

(Basis: Regulation 2-2-301 BACT, Regulation 8-18-301 Leaks, Regulation 8-28 Episodic Releases, Regulation 2-5 Toxics)

11. The owner/operator of S-850, S-1003, S-1007, S-1008, S-1526, S-1600, S-2001, and/or S-2025 shall identify all new valves, connectors, pressure relief devices, compressors, and pumps with a unique permanent identification code and shall include all new fugitive equipment in the fugitive equipment monitoring and repair program. The owner/operator shall monitor all repaired equipment within 24 hours of the repair. The unique permanent identification code does not apply to quarter-inch or less tubing and connectors associated with analytical sampling systems. (Basis: Regulation 8-18-402 Identification)

12. The owner/operator has been permitted to install/replace the following number of TOC service fugitive components:

1,283	valves in gas service
879	valves in light liquid service
1,026	valves in heavy liquid
5,078	connectors
4,569	flanges
28	PSV's/PRV's
10	compressors
21	pumps in light liquid service
29	pumps in heavy liquid service
86	process drains

The owner/operator shall not exceed 10.276 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions

shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

13. Within 30 days of the completion of the installation of all fugitive components in Part 11, the owner/operator shall submit a final component count for each source, final component count for the Renewable Fuels Project, and POC emissions estimate using the approved methods within these conditions to the Air District. Any replaced components shall be included as installed. If any of the fugitive component counts exceed or is less than a count stated above, the plant's cumulative increase emissions shall be adjusted as needed, subject to APCO approval, to reflect only the difference between emissions based on predicted component counts versus actual component counts. The amount of refund or additional offsets shall be handled or provided before issuance of the permit to operate. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 8-18)

14. The owner/operator shall calculate fugitive emissions utilizing Air District approved methods only. For leaking components, the owner/operator shall use the midpoint method, default zero factors, 10,000 ppm pegged factors, and/or other method approved by the Air District. The owner/operator shall include emissions estimates from all fugitive components associated with this application in order to demonstrate compliance with parts 11 and 15 through 22. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-301 BACT, Regulation 2-2-302 Offsets, Regulation 8-18)

15. The owner/operator shall conduct inspections of fugitive components of these conditions using a portable hydrocarbon detector as required per Regulation 8-18-501 and in accordance with the frequency below:

Valves:	Quarterly
Connectors:	Biannual (twice a year)
Flanges:	Biannual (twice a year)
Pressure Relief Valves:	Quarterly
Compressors:	Quarterly
Pumps:	Quarterly
Process Drains:	Quarterly

(Basis: Regulation 2-2-301 BACT, Regulation 8-18)

16. The owner/operator of S-850 has been permitted for the following total number of TOC service fugitive components:

1,338	valves in gas/vapor service
603	valves in light liquid service
476	valves in heavy liquid
9,319	connectors
1,844	flanges
28	PSV's/PRV's
5	compressors
7	pumps in light liquid service

- 10 pumps in heavy liquid service
- 142 process drains

Source S-850 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-850 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-850 shall not exceed 1.96 lbs per hour and/or 8.593 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

17. The owner/operator of S-1003 has been permitted for the following total number of TOC service fugitive components:

- 890 valves in gas/vapor service
- 729 valves in light liquid service
- 577 valves in heavy liquid
- 4,741 connectors
- 1,839 flanges
- 26 PSV's/PRV's
- 9 compressors
- 20 pumps in light liquid service
- 19 pumps in heavy liquid service
- 86 process drains

Source S-1003 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-1003 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January

for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-1003 shall not exceed 1.57 lbs per hour and/or 6.864 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

18. The owner/operator of S-1007 has been permitted for the following total number of TOC service fugitive components:

1,481	valves in gas/vapor service
837	valves in light liquid service
394	valves in heavy liquid
5,789	connectors
1,769	flanges
13	PSV's/PRV's
3	compressors
22	pumps in light liquid service
18	pumps in heavy liquid service
0	process drains

Source S-1007 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-1007 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-1007 shall not exceed 1.69 lbs per hour and/or 7.395 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the

Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

19. The owner/operator of S-1008 has been permitted for the following total number of TOC service fugitive components:

1,693	valves in gas/vapor service
108	valves in light liquid service
51	valves in heavy liquid
3,497	connectors
1,443	flanges
31	PSV's/PRV's
15	compressors
5	pumps in light liquid service
4	pumps in heavy liquid service
125	process drains

Source S-1008 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-1008 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-1008 shall not exceed 1.15 lbs per hour and/or 5.049 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

20. The owner/operator of S-1526 has been permitted for the following total number of TOC service fugitive components:

784	valves in gas/vapor service
1,470	valves in light liquid service
0	valves in heavy liquid
2,452	connectors

1,584	flanges
23	PSV's/PRV's
2	compressors
28	pumps in light liquid service
0	pumps in heavy liquid service
71	process drains

Source S-1526 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-1526 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-1526 shall not exceed 1.21 lbs per hour and/or 5.286 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

21. The owner/operator of S-1600 has been permitted for the following total number of TOC service fugitive components:

284	valves in gas/vapor service
351	valves in light liquid service
0	valves in heavy liquid
968	connectors
434	flanges
7	PSV's/PRV's
3	compressors
5	pumps in light liquid service
0	pumps in heavy liquid service
44	process drains

Source S-1600 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-1600 shall submit an application to update the fugitive counts above,

to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-1600 shall not exceed 0.36 lbs per hour and/or 1.582 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

22. The owner/operator of S-2001 has been permitted for the following total number of TOC service fugitive components:

100	valves in light liquid service
300	valves in heavy liquid
1,400	flanges
2	pumps in light liquid service
6	pumps in heavy liquid service

Source S-2001 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-2001 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-2001 shall not exceed 0.47 lbs per hour and/or 2.042 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the

Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

23. The owner/operator of S-2025 has been permitted for the following number of TOC service fugitive components:

- 400 valves in heavy liquid
- 1,400 flanges
- 10 pumps in heavy liquid service

Source S-2025 may exceed the component counts specified above provided that both the emissions from all fugitive components added and/or replaced qualify for the exemption under Regulation 2-1-128.21. The owner/operator of S-2025 shall submit an application to update the fugitive counts above, to update the mass emission limits below, to confirm that BACT has been satisfied, and to provide offsets for the new/replaced components. The potential to emit of the added and/or replaced fugitive components shall be calculated according to Regulation 8-18 requirement and shall be used to determine the offsets due. The application shall be submitted to the Air District by the end of January for the previous calendar year's component counts added and/or replaced. Any new and/or replaced components shall be included and reported as required by Part 10 of the LDAR program.

The owner/operator of S-2025 shall not exceed 0.48 lbs per hour and/or 2.088 tons per year of POC emissions (measured as C1) from all fugitive components included in the above counts. Compliance with this provision shall be verified quarterly using methods described in Part 13. The results shall be submitted to the Air District within 30 days of the close of each calendar quarter after commencing with start-up of the system. The owner/operator shall keep documentation of fugitive component counts and corresponding POC emissions for at least five years from date of entry. For the purposes of these conditions POC emissions shall be considered equal to the TOC emissions as determined by the Regulations 2-2 and 8-18 LDAR program. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets, Regulation 2-5 Toxics, Regulation 8-18)

Condition 27597

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
S-621 Tank A-621, EFRT, Intermediate HDO Product

1. The owner/operator of S-621 shall ensure that throughput does not exceed 12,045,000 barrels in any consecutive 12 month period and/or 58,000 barrels per calendar day. (Basis: Regulation 2-2-208 Cumulative Increase)
2. The owner/operator of S-621 shall ensure that the maximum true vapor pressure of material throughput to and/or stored in S-621 shall be less than or equal to 1.3 psia. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 8-5)
3. The owner/operator may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1 provided that the owner/operator can demonstrate that all of the following are satisfied:

- a. Total POC and/or NPOC emissions from S-621 do not exceed 2,038 pounds in any consecutive twelve month period;
- b. Total POC and/or NPOC emissions from S-621 do not exceed 8.1 pounds per calendar day;
- c. The use of these materials does not result in any increase in toxic emissions equal to or above any trigger level contained in Table 2-5-1 in Regulation 2-5.

(Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)

4. To determine compliance with the above parts, the owner/operator of S-621 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 and maximum true vapor pressures of each type of liquid stored at this source on a daily basis.
- b. If a material other than those specified in Part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 3, on a daily 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 five years, from the date of entry, and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable Air District Regulations.

(Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics, Regulation 8-5)

5. The owner/operator of S-621 shall conduct a test to determine the maximum true vapor pressure and to demonstrate compliance with Part 2. Initial compliance test shall be conducted within 180 days of startup and results shall be submitted to the Air District's Engineering Division no later than 60 days from the date of completion. The owner/operator of S-621 repeat the test on a monthly basis. The owner/operator of S-621 may propose a change in testing frequency based on an established consistent maximum true vapor pressure of intermediate HDO product from testing.

(Basis: Regulation 2-2-208 Cumulative Increase, Regulation 8-5)

Condition 27598

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
S-2023 Tank TK-1044, Polymer Storage Tank

1. The owner/operator of S-2023 shall ensure that throughput does not exceed 250 barrels of polymer in any consecutive 12 month period and/or 30.9 barrels per calendar day. (Basis: Regulation 2-2-208 Cumulative Increase)

2. The owner/operator of S-2023 shall ensure that the maximum true vapor pressure of material throughput to and/or stored in S-2023 shall be less than or equal to 0.86 psia. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 8-5)
3. The owner/operator of S-2023 may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1 provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC and/or NPOC emissions from S-2023 shall not exceed 38.6 pounds in any consecutive twelve month period;
 - b. Total POC and/or NPOC emissions from S-2023 shall not exceed 2.6 pounds per calendar day;
 - c. The use of these materials does not result in an increase in toxic emissions equal to or above any trigger level contained in Table 2-5-1 in Regulation 2-5.
(Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)
4. To determine compliance with the above parts, the owner/operator of S-2023 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 and maximum true vapor pressures of each type of liquid stored at this source on a daily basis. Material safety data sheet may be used if it specifies maximum true vapor pressure.
 - b. If a material other than those specified in Part 1 is stored, POC/NPOC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 3, on a daily 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 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: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics, Recordkeeping)

Condition 27603

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
S-651 Tank A-651, EFRT, Oil/Water Mixture, Refinery Sour Waste Water

1. The owner/operator of S-651 shall ensure that throughput does not exceed 5,631,429 barrels of sour water in any consecutive 12 month period and/or 26,731 barrels per calendar day. (Basis: Regulation 2-2-208 Cumulative Increase)

2. The owner/operator of S-651 shall ensure that the maximum true vapor pressure of material throughput to and/or stored in S-651 shall be less than or equal to 0.01 psia. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 8-5-117)
3. The owner/operator of S-651 may store alternate liquid(s) other than the materials specified in Part 1 and/or usages in excess of those specified in Part 1 provided that the owner/operator can demonstrate that all of the following are satisfied:
 - a. Total POC and/or NPOC emissions from S-651 shall not exceed 413.2 pounds in any consecutive twelve month period;
 - b. The use of these materials does not increase toxic emissions equal to or above any risk screening trigger level of Table 2-5-1 in Regulation 2-5.
(Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)
4. To determine compliance with the above parts, the owner/operator of S-651 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 and maximum true vapor pressures of each type of liquid stored at this source on a daily basis.
 - b. If a material other than those specified in Part 1 is stored, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 3, on a daily 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 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 Air District Regulations.(Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)

Condition 27604

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.
S-919 No. 2 HDS Depent Reboiler (F19)
S-920 No. 2 HDS Charge Heater (F20)
S-928 HDN Reactor A Heater (F28)
S-929 HDN Reactor B Heater (F29)
S-930 HDN Reactor C Heater (F30)
S-931 Hydrocracker Reactor 1 Heater (F31)
S-932 Hydrocracker Reactor 2 Heater (F32)
S-933 Hydrocracker Reactor 3 Heater (F33)
S-934 Hydrocracker Stabilizer Reboiler (F34)

S-937 Hydrogen Plant Heater (F37)

S-973 No. 3 HDS Recycle Gas Heater (F55)

S-1511 Hot Oil Heater #1 (F78), Natural Gas, Fuel Gas, Abated by A-1511 SCR

S-1512 Hot Oil Heater #2 (F79), Backup, Natural Gas, Fuel Gas, Abated by A-1512 SCR

1. The owner/operator of S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, and/or S-973 shall not burn any fuel gas having Total Sulfur (TS) greater than 162 ppm. (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)
2. The owner/operator of S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, and/or S-973 shall test for Total Sulfur (TS) concentration of fuel gas on a weekly basis. The results shall be submitted to the Air District's Engineering Division no later than 30 days after each month. After three years of operation (156 tests), the owner/operator of S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, and/or S-973 may propose a change in testing frequency based on an established consistent TS of less than 35 ppm from testing. Written approval by the Air District's Engineering Division must be received by the owner/operator prior to a change in testing schedule. (Basis: Regulation 2-2-208 Cumulative Increase)
3. To determine compliance with the above parts, the owner/operator of S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, and/or S-973 shall maintain the following records and provide all of the data necessary to evaluate compliance with the above parts, including the following information:
 - a. Total Sulfur (TS) concentration
 - b. Type of feedstock used during the sampling and testing;
 - c. Feed/Processing Rate; and
 - d. Date and time of sampling and testing.

All records shall be retained on-site for five years, from the date of entry, and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable Air District Regulations. (Basis: Regulation 2-2-208 Cumulative Increase)

4. Within 180 days of the startup of each source S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, S-973, S-1511, and/or S-1512, the owner/operator shall conduct source testing to develop fuel gas combustion emissions factors for the following toxic air contaminant pollutants: Sulfuric Acid Mist, PAH (as B(a)P-equivalent), Ammonia, 1,4-Dichlorobenzene(p), Acetaldehyde, Arsenic, Benzene, Beryllium, Cadmium, Chromium (hexavalent), Copper, Cyanide and compounds, Ethyl benzene, Formaldehyde, Hexane, Hydrochloric acid, Hydrogen sulfide, Lead, Manganese, Mercury, Naphthalene, Nickel, Phenol, Propylene, Selenium, Toluene, Vanadium, and Xylenes. The owner/operator shall use test methods in the table below, or other District approved test methods. The owner/operator shall notify the Air District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). The report shall be submitted to the

Air District's Source Test Section and Engineering Division no later than 60 days from the date of completion of sampling and testing.

Pollutant	Test Method
Sulfuric Acid	EPA Method 8
PAH (as B(a)P-equivalent)	CARB 429
Ammonia	BAAQMD ST-1B
1,4-Dichlorobenzene(p)	EPA Method TO-15
Acetaldehyde	CARB 430
Arsenic	EPA Method 29
Benzene	EPA Method TO-15
Beryllium	EPA Method 29
Cadmium	EPA Method 29
Chromium (hexavalent)	CARB 425
Copper	EPA Method 29
Cyanide and compounds	CARB Method 426
Ethyl benzene	EPA Method TO-15
Formaldehyde	CARB 430
Hexane	EPA Method TO-15
Hydrochloric acid	EPA Method 26A
Hydrogen sulfide	EPA Method 11
Lead	EPA Method 29
Manganese	EPA Method 29
Mercury	EPA Method 29
Naphthalene	CARB 429
Nickel	EPA Method 29
Phenol	EPA Method TO-15
Propylene	EPA Method TO-15
Selenium	EPA Method 29
Toluene	EPA Method TO-15
Vanadium	EPA Method 29
Xylenes (isomers and mixture)	EPA Method TO-15

Prior to the issuance of the Permit to Operate for the sources above, fuel gas combustion emission factors from source testing shall be used to verify emission factors used in the engineering evaluation for the issuance of the Authority to Construct. If source testing results indicate an increase in any toxic air contaminants and/or identify any new toxic air contaminants not previously evaluated as part of the issuance of the Authority to Construct, the health risk assessment shall be updated in order to verify compliance with Regulation 2, Rule 5 prior to the issuance of the Permit to Operate. (Basis: Regulation 2-2-208 Cumulative Increase; Regulation 2-5 Toxics)

5. Within 180 days of the startup of each source S-919, S-920, S-928, S-929, S-930, S-931, S-932, S-933, S-934, S-937, S-973, S-1511, and/or S-1512, the owner/operator shall conduct initial compliance source testing to determine the POC destruction efficiency per both Permit Condition #21053, Part 6

and Permit Condition #13605 Part 3. The owner/operator shall notify the Air District's Compliance and Enforcement Division, Source Test Section, and Engineering Division at least seven days in advance of the initial compliance source test such that the Air District may observe during testing. The results shall be delivered to the Air District's Source Test Section no later than 60 days from the date of the test. If the POC destruction efficiency is greater than or equal to 99.5%, the source testing results show compliance with the assumptions used in analysis for the issuance of the authority to construct of the Renewable Fuels Project and no further action will be required. If the POC destruction efficiency is less than 99.5%, the owner/operator shall submit a new permit application to address the non-compliance with Permit Condition #13605, Part 3. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-5 Toxics, Regulation 2-2-302 Offsets)

Condition 27610

Application 30768 (September 2022 – Initial Issuance): Martinez Renewable Fuels Project.

S-2001 Stage 1 Wastewater Treatment Unit

S-2003 DAF Unit

S-2010 Tank A-876, FRT, Stage 1 WWTP, Equalization Tank (formerly S-1496)

S-2013 Tank A-432, Open-Top, Moving Bed Biofilm Reactor (formerly S-432)

1. The owner/operator of S-2001, S-2003, S-2010, and/or S-2013 shall not exceed a wastewater flow exceeding 864,000 gallons per calendar day (600 gallons per minute) and/or 236,520,000 gallons per consecutive 12 month period (450 gallons per minute). The owner/operator of S-2001, S-2003, S-2010, and/or S-2013 shall monitor wastewater flow rates using a continuous flow meter and recorder. (Basis: Regulation 2-2-208 Cumulative Increase)

2. To determine compliance with the above condition, the owner/operator of S-2001, S-2003, S-2010, and/or S-2013 shall maintain the following records:

- a. Daily and monthly records of the quantity of wastewater processed at this source.
- b. Monthly records totaled for each consecutive 12-month period.

All records shall be retained onsite for five years from the date of entry, and made available for inspection by Air District staff upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any Air District Regulation. (Basis: Regulation 2-2-208 Cumulative Increase)

3. The owner/operator of S-2013 shall ensure that POC emissions do not exceed 26,105 pounds per consecutive 12 month period and/or 85.5 pounds per calendar day using only Air District approved methodologies. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-301 BACT, Regulation 2-2-302 Offsets)

4. The owner/operator of S-2010 shall ensure that POC emissions do not exceed 2,675 pounds per consecutive 12 month period and/or 7.3 pounds per calendar day using only Air District approved methodologies. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets)

5. The owner/operator of S-2003 shall ensure that POC emissions do not exceed 122 pounds per consecutive 12 month period and/or 0.3 pounds per calendar day using only Air District approved methodologies. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets)
6. The owner/operator of S-2001 shall ensure that POC emissions do not exceed 4,083 pounds per consecutive 12 month period and/or 11.2 pounds per calendar day using only Air District approved methodologies. (Basis: Regulation 2-2-208 Cumulative Increase, Regulation 2-2-302 Offsets)

Conditions for Sources Owned/Operated by Contractors (Table II.D)

Condition 17071 (Envent Plant 12342)

Application 348; Plant 12342
Source S-2, Portable Airstripper for Hydrocarbon
Contaminated Water Treatment System

1. The operator of this source shall notify the District at least 3 days prior to start-up of operation at any new location. The notification shall include:
 - a. Street address, including zip code, for the location where the equipment will be operated.
 - b. The name and telephone number of a contact person where the equipment will be operated.
 - c. Estimated amount of contaminated water in thousands of gallons to be treated at that location.
 - d. The date of initial start-up and estimated duration of operations at that location.
 - e. The distance from the source to the outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Permit Services Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability.
3. This portable equipment, S-2, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment.
4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school, unless the applicable requirements of the California Health and Safety Code Section 42301.6 have been met.

5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted contaminated water. At no time shall this equipment process water of such contamination that would result in Precursor Organic Compound (POC) emissions greater than 10 pounds per day after abatement. This shall be demonstrated by onsite sampling required in condition 7 below.
6. Precursor Organic Compound (POC) emissions from Source S-2 shall be abated by Abatement device A-2, Abatement System, consisting of either a thermal oxidizer, or at least two (200 lbs minimum capacity) Activated Carbon Vessels during all periods of operation. Start-up and subsequent operation of each abatement device shall take place only after written notification of same has been received by the District's Permit Services Division. Groundwater flow rate shall not exceed 100 gpm.
7. For each of the first three days of operation of the airstripper, at least one influent groundwater sample shall be collected and analyzed. At least one sample shall be collected and analyzed thereafter for each calendar month of operation. Samples shall be collected in accordance with the Regional Water Quality Control Board's analytical methods.
8. The POC abatement efficiency of abatement device A-2 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as C6). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as C6). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.70 pounds per year.
9. While operating as a thermal oxidizer, the minimum operating temperature of A-2 shall not be less than 1400 degrees Fahrenheit.
10. To determine compliance with Condition Number 9, the thermal oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.
11. To determine compliance with Condition 8, within ten days after start-up of the thermal oxidizer, the operator of this source shall:
 - a. Calculate the inlet POC concentration to the thermal oxidizer, based on the groundwater sampling required by condition 7 and the measured air flow rate at the inlet to the thermal oxidizer.
 - b. Analyze the exhaust gas to determine the flow rate, and the concentration of benzene and POC present. The exhaust gas flow rate may be calculated by material balance based on the measured/characterized thermal oxidizer inlet flow rates.

- c. Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 8.
 - d. Calculate the POC abatement efficiency based on the inlet water sampling required by condition 7, the measured groundwater flow rate, and the exhaust gas analysis. For the purpose of determining compliance with condition 8, the POC concentration shall be reported as hexane.
 - e. Submit to the District's Permit Services Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.
12. The operator of this source shall maintain the following records for each month of operation of the Thermal/Catalytic Oxidizer:
- a. Days and hours of operation.
 - b. Each emission test, analysis or monitoring results logged-in for the day of operation they were taken.

Such records shall be retained and made available for inspection by the District for two years following the date the data is recorded.

13. During operation of the Activated Carbon Vessels, the operator of this source shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID), or other method approved in writing by the District's Source Test Manager at the following locations:
- a. At the inlet to the second to last Carbon vessel in series.
 - b. At the inlet to the last Carbon vessel in series.
 - c. At the outlet of the Carbon vessel that is last in series prior to venting to the atmosphere.

When using an FID to monitor breakthrough, readings may be taken with and without a Carbon filter tip fitted on the FID probe. Concentrations measured with the Carbon filter tip in place shall be considered methane for the purpose of these permit conditions.

14. These monitor readings shall be recorded in a monitoring log at the time they are taken. The monitoring results shall be used to estimate the frequency of Carbon change-out necessary to maintain compliance with conditions number 15 and 16, and shall be conducted on a daily basis. The operator of this source may propose for District review, based on actual measurements taken at the site during operation of the source, that the monitoring schedule be changed based on the decline in organic emissions and/or the demonstrated breakthrough rates of the carbon vessels. Written approval by the District's Permit Services Division must be received by the operator prior to a change to the monitoring schedule.

15. The second to last Carbon vessel shall be immediately changed out with unspent carbon upon breakthrough, defined as the detection at its outlet in excess of the higher of the following limits:
 - a. 10 % of the inlet stream concentration to the carbon bed.
 - b. 10 ppmv (measured as C6).
16. The last Carbon vessel shall be immediately changed out with unspent Carbon upon detection at its outlet of 10 ppmv or greater (measured as C6).
17. The operator of this source shall maintain the following information for each month of operation of the Activated Carbon Vessels:
 - a. Hours and time of operation.
 - b. Each emission test, analysis or monitoring results logged in for the day of operation they were taken.
 - c. The number of Carbon vessels removed from service.

Such records shall be retained and made available for inspection by the District for two years following the date the data is recorded.

18. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division with a summary showing the following information:
 - a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment was operated at that location.
 - b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 11e above.
 - c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken.
 - d. The total throughput of contaminated water processed by S-2 at that location (indicated thousands of gallons).
 - e. The total emissions of benzene at that location based on the sampling results required by conditions 7 and 11 above.
 - f. Maximum daily uncontrolled POC emissions from the source as determined by the sampling results required by condition 7 above.

19. Within 30 days after the end of every calendar year, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division a year end summary showing the following information:

- a. The location(s) at which the equipment was operated including the dates operated at each location.
 - b. The total throughput of contaminated water for the previous four quarters (indicated in thousands of gallons).
 - c. The total benzene emissions for the previous four quarters (indicated in pounds).
20. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded.
21. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

Condition 21971 (Clean Harbors Plant 21432)

Formerly and acquired from:
Sierra Processing Systems, Inc.
Plant 16381

Conditions for S-1 (Sludge Centrifuge) and S-2(Sludge tanks):

1. The owner/operator shall ensure that both S-1 and S-2 are abated by at least one of the following abatement devices at all times of source operation:
 - A1. Carbon filter system
 - A2. Catalytic oxidizer
 - A3. Thermal oxidizer
 - A4. Catalytic oxidizer[Basis: Regulation 8-5]
2. The owner/operator shall ensure that A-1, carbon filter system, consists of at least two vessels of activated carbon in series (200 pound capacity each). [Basis: Cumulative Increase]
3. The owner/operator shall ensure that carbon in the upstream vessel in series shall be replaced with new or downstream carbon when the non-methane hydrocarbon (NMHC) concentration in the exhaust from this vessel exceeds either of the following:
 - a. 100 ppmv (as C1)
 - b. 10% of the inlet concentration[Basis: Cumulative Increase]

4. The owner/operator shall ensure that the concentration of NMHC in the exhaust from the downstream vessel does not exceed 100 ppmv (as C1). The carbon in the downstream vessel shall be changed as required to ensure compliance with this requirement. [Basis: Cumulative Increase]
5. The owner/operator shall ensure that no source be operated while carbon which abates that source is being replaced. [Basis: Cumulative Increase]
6. For A-1, NMHC concentration of the process exhaust gas at the following points shall be monitored on a daily basis to verify compliance with Part 2. Monitoring shall be performed with a photo-ionization detector (PID), flame-ionization detector (FID) or other method approved in writing by the District:
 - a. inlet to the upstream carbon vessel in series
 - b. outlet of the upstream carbon vessel in series
 - c. outlet of the downstream carbon vessel in series

When using an FID to monitor A-1, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane and are not counted as NMHC. [Basis: Cumulative Increase]

7. All measured concentrations required by Part 6 shall be recorded in a District-approved log. These records shall be kept for at least two years and shall be made available to the District upon request. [Basis: Recordkeeping]
8. The POC destruction efficiencies of A-2, A-13 and A-3 shall be maintained at a minimum of 95% by weight. [Basis: Regulation 8-5-306]
9. The owner/operator shall ensure that nitrogen oxides (NO_x) emissions from either A-2, Catalytic oxidizer, A-13 Catalytic oxidizer or A-3, Thermal oxidizer do not exceed 50 ppmvd @ 15% O₂ (0.20 lb/MMBtu). [Basis: RACT]
10. The owner/operator shall ensure that carbon monoxide (CO) emissions from either A-2, A-13 or A-3 shall not exceed 350 ppmvd @ 15% O₂ (0.80 lb/MMBtu). [Basis: RACT]
11. In order to demonstrate compliance with Parts 8, 9, and 10 above, the permit holder shall perform a District approved source test within 45 days of startup of A-13 in accordance with the District's Manual of Procedures. The permit holder shall notify the Manager of the District's Source Test Section at least seven (7) days prior to the test, to provide the District staff the option of observing the testing. Within 30 days of test completion, a comprehensive report of the test results shall be submitted to the Manager of the District's Source Test Section and the Manager of the Permit Evaluation Section for review and disposition. [Basis: Regulation 2-1-403]
12. The owner/operator shall ensure that A-2, catalytic oxidizer, A-13, catalytic oxidizer and A-3, thermal oxidizer, are equipped with temperature-measuring devices capable of continuously measuring and recording the temperatures. The owner/operator shall install and maintain the equipment in

accordance with manufacturer's recommendations. The minimum furnace temperature of A-2 and A-13 shall be at least 600°F and that of A-3 shall be at least 1400°F. The District may adjust this minimum temperature if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Parts 6, 7 and 8 above. [Basis: Regulation 2-1-403]

13. The owner/operator of A-13 shall ensure that the emissions from S-1 and S-2 do not exceed 230 mg/dsm (0.10 gr/dscf or 163 ppmv (dry basis)) of H₂S at the inlet of A-13, or 20 ppmv (dry basis) of SO₂ at the outlet of A-13. [Basis: NSPS (40 CFR 60, Subpart J)]

14. The owner/operator of A-13 shall install either H₂S or SO₂ continuous monitoring and recording system to verify compliance with the requirement of Part 9. The owner/operator shall maintain the equipment in accordance with manufacturer's recommendations. [Basis: NSPS (40 CFR 60, Subpart J)]

Conditions for S-4 Crude Oil tank, 20,000 gallon capacity:

1. The owner/operator shall not exceed a total liquid throughput at S-4 of 6,944,212 gallons during any consecutive twelve-month period. [Basis: Cumulative Increase]

2. The owner/operator shall store only crude oil in S-4. [Basis: Cumulative Increase]

3. The owner/operator shall ensure that S-4 is abated by one of the following abatement devices at all times that the source is in operation:

- A-1 Carbon filter system
- A-2 Catalytic oxidizer
- A-3 Thermal oxidizer
- A-13 Catalytic oxidizer

[Basis: Regulation 8-5]

4. The owner/operator shall ensure that total controlled POC emissions based on the maximum throughput in Part 1, do not exceed 290 pounds in any consecutive twelve-month period. [Basis: Cumulative Increase]

5. In order to demonstrate compliance with Part 1, the owner/operator of tank S-4 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive twelve-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 24 months from the date that the record was made. [Basis: Cumulative Increase]

Condition 22448 (Clean Harbors Plant 21432)

Formerly and acquired from:

- Sierra Process Systems, Plant 16381
- Application 12525 (August, 2005) Amended by Application 18569 (August, 2008)
- S-8 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-9 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-10 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-11 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-12 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-13 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-14 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-15 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-16 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-17 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-18 Portable Sludge/Oil Tank; 20,000 gallon capacity abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

S-19 Centrifuge, 200 gallons per minute, abated by one of A-4 through A-12 Carbon Filter Systems; each system - two 200 pound carbon beds in series (125 cfm) or A-14 Catalytic Oxidizer

1. The owner/operator shall ensure that S-8 through S-18 Portable Sludge/Oil Tanks and S-19 Centrifuge are abated by one of A-4 through A-12 Carbon Filter Systems or by A-14 Catalytic Oxidizer at all times of source operation. (basis: cumulative increase)
2. The owner/operator shall ensure that A-4 through A-12 Carbon Filter Systems, consist of at least two vessels of activated carbon in series with 200 pounds of carbon in each vessel. (basis: cumulative increase)
3. The owner/operator shall ensure that carbon in the upstream vessel in series shall be replaced with new or downstream carbon when the non-methane hydrocarbon (NMHC) concentration in the exhaust from this vessel exceeds either of the following:

- a. 10 ppmv (as C1)
 - b. 10% of the inlet concentration(basis: cumulative increase)
4. The owner/operator shall ensure that the concentration of NMHC in the exhaust from the downstream vessel does not exceed 10 ppmv (as C1). The carbon in the downstream vessel shall be changed as required to ensure compliance with this requirement. (basis: cumulative increase)
5. The owner/operator shall ensure that no source be operated while carbon which abates that source is being replaced. (basis: cumulative increase)
6. The owner/operator shall abate S-8 through S-19 with A-14 Catalytic Oxidizer when the controlling vapors are too strong for the activated carbon systems to adsorb safely and/or when the process emits higher flow rates. The A-14 Catalytic Oxidizer influent vapor flow rate shall not exceed 700 scfm. (basis: cumulative increase)
7. The outlet concentration from A-14 Catalytic Oxidizer shall not exceed the higher of the following:
 - a. 10 ppmv (measured as C1)
 - b. 5% of the inlet concentration of the A-14 Catalytic Oxidizer(basis: cumulative increase)
8. The owner/operator shall equip A-14 Catalytic Oxidizer with a temperature-measuring device capable of continuously measuring and recording the temperature in A-14. The owner/operator shall install and maintain the equipment in accordance with the manufacturer's recommendations. The minimum furnace temperature of A-14 shall be at least 600 degrees F. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Part 7. (basis: Regulation 2-1-403)
9. On a daily basis, the owner/operator of sources S-8 through S-19 shall monitor the process exhaust gas at the following points when that source is operating for compliance with Parts 3, 4, and 7. The owner/operator shall monitor with a photo-ionization detector (PID), flame-ionization detector (FID) or other method approved by the District:
 - a. Inlet to the upstream carbon vessel in series
 - b. Outlet of the upstream carbon vessel in series
 - c. Outlet of the downstream carbon vessel in series
 - d. Inlet to the A-14 Catalytic Oxidizer
 - e. Outlet of the A-14 Catalytic Oxidizer

When using an FID, readings may be taken with and without a carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane and are not counted as NMHC. (basis: cumulative increase)

10. 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 five years from the date on which a record is made.

- a. The hours and times of operation of each source and the abatement device used.
- b. All measured concentrations required by Part 9
- c. The furnace temperature of A-14 as required by Part 8

(basis: Regulation 2-1-403)

Condition 24010 (Envent Plant 16338)

1. The owner/operator of all portable permitted tank sources S-1 through S-40 shall be permanently marked each source with its appropriate source numbers. (Basis: Recordkeeping)
2. The owner/operator shall ensure that the total throughput of organic liquids for each tank (S-1 to S-40) shall not exceed 500,000 gallons during any consecutive 12-month period. (Basis: Cumulative increase)
3. The owner/operator shall ensure that the combined throughputs of organic liquids for all storage tanks S-1 through S-40 shall not exceed 2,500,000 gallons during any consecutive 12-month period at any particular location. (Basis: Cumulative increase, Regulation 2-5).
4. The owner/operator shall ensure that the emissions from the sources S-1 to S-40 shall be abated at all times by either thermal oxidizer A-1, A-2, A-3 or A-21 and/or by one or more of the activated carbon systems A-4 to A-19. (Basis: Regulation 8-5-301, 2-5, BACT)
5. When an activated carbon system (carbon canisters) is used for VOC abatement, the owner/operator shall monitor as necessary the inlet and outlet of each carbon adsorption canister to determine the time of organic breakthrough, as total carbon on a dry basis. The operator shall monitor with a photo-ionization detector (PID) utilizing EPA Method 21 or other monitor approved by the Air District. The monitor shall be calibrated to hexane according to the manufacturer's recommendations. The carbon system shall consist of at least two canisters in series. The owner/operator shall monitor the carbon system at the following locations:
 - a. At the inlet of the first carbon canister
 - b. At the inlet of the second carbon canister
 - c. At the outlet of the second carbon canister

If there are more than two carbon canisters in series, the above measurement locations refer to the last two canisters. The monitor readings shall be recorded at the time they are taken. The permit holder of

sources S-1 through S-18 and S-21 through S-40 shall monitor the emissions daily. The owner/operator of A-19 abating S-19 and S-20 shall monitor the emissions weekly. The frequency of monitoring may be adjusted by the Air District upon request and submission of performance data by the owner/operator. The monitor readings shall be used to predict the time of organic breakthrough in order to maintain compliance with Parts 6 and 7. [Basis: Regulation 8-5-306]

6. The owner/operator shall ensure that the activated carbon in the first carbon canister shall be replaced with new or downstream carbon when the non-methane organic concentration in the effluent from this canister reaches 10% of the non-methane organic concentration entering the canister, or 10 ppm, measured as C1, whichever is greater. [Basis: Regulation 8-5-306]

7. The owner/operator shall ensure that the activated carbon in the last carbon canister in series shall be replaced immediately with new carbon when the non-methane organic concentration in the effluent exceeds 10 ppm, measured as C1. [Basis: Regulation 8-5-306]

8. Whenever a thermal oxidizer is used for abatement of VOCs, the owner/operator shall ensure that the temperature in the combustion chamber shall be maintained at 1400F or higher. The system shall be equipped with an Air District approved continuous temperature monitor/recorder. [Basis: Cumulative increase]

9. The owner/operator shall ensure that the Permit to Operate or a copy shall be posted or stored at the plant where the tank is installed, and made available to the inspector upon request at the site. (Basis: Regulation 2-1-403; 2-1-405)

10. If the owner/operator places a portable tank at any fixed location in the Bay Area Air Basin for more than 12-months, the portable permit will automatically revert to a conventional permanent location BAAQMD permit and will lose its portability. (Basis: Regulation 2-1-220.2)

11. The owner/operator shall ensure that any loss of portability per Part 10 shall be reported to the director of the Compliance and Enforcement Division no later than 30 days after the loss of its portability [Basis: Regulation 2-1-220]

12. The owner/operator shall ensure that the portable equipment S-1 through S-40 and abatement equipment A-1 through A-19, do not discharge air contaminants in such quantities as to cause a public nuisance. [Basis: Regulation 1-301]

13. The owner/operator shall keep the following records in an Air District approved log book and retain the records for a period of at least two years following the date of entry. The owner/operator shall keep the log with the equipment and make it available to District staff upon request. The log shall contain at least the following information:

Date and location of the tank installation Type of Organic liquid stored Throughput in thousands of gallons daily and monthly cumulative totals Daily VOC monitoring, activated carbon change dates and quantity when a carbon system used Thermal oxidizer identification and combustion chamber temperature recordings including dates and times when a thermal oxidizer is used. Date the tank is taken out of commission at each location. (Basis: Regulation 2-1-403)

14. The Permit Holder shall notify the District, in writing, at least 3 days in advance, of the new location at which they intend to Operate. The notification shall include:

- a. District plant number for the portable equipment
- b. Brief description of the general nature of the operation and identification of the equipment to be used
- c. The address of the new location and facility map and the estimated duration of the operation at this site
- d. The name and phone number of a contact person where the equipment will be operated.

[Basis: Regulation 2-1-403]

15. In a situation where the services of the owner/operator of this portable equipment are immediately required or the owner operator has been provided with less than 3 days notification the owner/operator may contact the District engineer or inspector by telephone or facsimile and then follow up with the required written notification. (Basis: Regulation 2-1-403)

VII APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

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

Section A Sitewide (Refinery and Amorcó)

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2758 - Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
For limits and monitoring requirements associated with the Refinery Emissions Cap Condition 8077 see Table VII-M.1							
Benzene	40 CFR 61.342(e)(2)(i)) 63.647(a)	Y		6.0 Mg/yr (6.6 tons/yr) [Facility wide limit – combined with Facility B2759]	40 CFR 61.356(b)(4)	N	Records
POC	BAAQMD 8-8-304	N		Combined collection/destruction efficiency of 95% by weight. or vapor-tight covers [sludge dewatering]	BAAQMD 8-8-602	N	Source test or EPA Method 25 or 25A
POC	SIP 8-8-304	Y		Combined collection/destruction efficiency of 95% by weight. or vapor-tight covers [sludge dewatering]	SIP 8-8-602	N	Source test or EPA Method 25 or 25A
POC	40 CFR 61.345(a)(1)(i))	Y		Container openings leak ≤ 500 ppm	40 CFR 61.345(a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.345(b)	Y		Containers closed & properly gasketed	40 CFR 61.345(b)	P/Q	Visual Inspection

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2758 - Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61.345(c)	Y		Container broken seals & gaskets repaired within 15 days	40 CFR 61.356(g)	P/Q	Reports
VOC	BAAQMD 8-5-331	N		90% abatement efficiency (tank cleaning)	BAAQMD 8-5-502.2 8-5-603	P/ A	Source Test
VOC	BAAQMD 8-5-332.1	N		No liquid leakage [Sludge containers]	None	N	N/A
VOC	BAAQMD 8-5-332.2	N		Gaps <=1.3 cm (1/2 inch) [Sludge containers]	None	N	N/A
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 (4.6 psig)	BAAQMD 8-10-401 8-10-501 8-10-502	P/E	Records
VOC	SIP 8-10-301	Y		Abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg (4.6 psig)	SIP 8-10-401 BAAQMD 8-10-501 8-1-502	P/E	Records
VOC	BAAQMD 8-10-302.1 8-10-302.2	N		< 10,000 ppm organic concentration [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 8-10-502 8-10-503	P/E (prior to opening vessel and daily during time vessel is open to atmosphere)	Method 21 Inspection and Records

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2758 - Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.2450(v) (1)(i), (ii), (iii), or (iv)	Y		LEL < 10%; Pressure ≤ 5 psig and active purging may begin when LEL < 10%; equipment served by maintenance vent contains < 50 lbs VOC; Pressure ≤ 2 psig for blind installation	63.2450(v)(2) or (3)	P/E	Process instrumentation, portable measurement device, or N/A
Ambient SO ₂	BAAQMD 9-1-301	Y		Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours	BAAQMD 9-1-501 9-1-604	C	Area Monitoring
Ambient H ₂ S	BAAQMD 9-2-301	N		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	BAAQMD 9-2-501 9-2-602	C	Area Monitoring
H ₂ S NH ₃	BAAQMD 9-1-313.2	N		Refinery wide: 95% H ₂ S removal (refinery fuel gas) 95% H ₂ S removal (process water streams) 95% NH ₃ removal (process water streams)	None	N	N/A
H ₂ S NH ₃	SIP 9-1-313.2	Y		Refinery wide: 95% H ₂ S removal (refinery fuel gas) 95% H ₂ S removal (process water streams) 95% NH ₃ removal (process water streams)	None	N	N/A
SO ₂	BAAQMD 9-1-304	Y		Sulfur content ≤ 0.5% (liquid fuels) where burning such fuel would produce emissions of 300 ppmvd SO ₂	BAAQMD 9-1-602	N	BAAQMD MOP Method 10

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2758 - Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQMD 8-40-304	Y		Exposed surface area ≤ 6,000 square feet (Active storage pile)	None	N	N/A
PM	BAAQMD 8-40-305	Y		Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour	None	N	N/A
VOC	BAAQMD 8-40-306.4	Y		Within 45 days of excavation or 90 days of < 500 ppmw, cover with ≥ 6" uncontaminated soil or remove all contaminated soil from site or initiate treatment	BAAQMD 8-40-601.3 (≤ 250 cubic yds) 8-40-601.4 (> 250 cubic yds)	P/E	Sample every 50 cubic yds excavated (≤ 250 cubic yds) Sample every 100 cubic yds excavated (> 250 cubic yds)
VOC	BAAQMD 8-40-306.6	Y		During periods of inactivity > 12 hours, Backfilled contaminated soil covered with ≥ 6" un contaminated soil or continuous heavy duty plastic sheeting	None	N	N/A
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 3.81 cm Total gap surface area ≤ 212 cm ² per meter of tank diameter	40 CFR 60.113b(b)(1)(i) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 1.27 cm Total gap surface area ≤ 21.2 cm ² per meter of tank diameter	40 CFR 60.113b(b)(1)(ii) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Secondary seal gap measurements
VOC	Condition 19528 Part 12	Y		Tank TVP ≤ 0.5 psia [8-5-117 exemption]	BAAQMD Condition 19528 Part 12	P/E on change of material stored	Reference table or lab analysis

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2758 - Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
40 CFR 63 Subpart GGGGG							
Exemption	40 CFR 63.7884(b)	Y		Complete site remediation within 30 consecutive days (40 CFR Subpart GGGGG Exemption)	40 CFR 63.7884(b)(3)	N	Records
HAP	40 CFR 63.7886(b)(1)(i)	Y		For Tanks: Comply with 63.7895-7898 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(ii)	Y		For Containers: Comply with 63.7900-7903 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
HAP	40 CFR 63.7886(b)(4)(i) 63.684(b)(4)	Y		≥ 95% HAP reduction efficiency or HAP removed by biological degradation ≥ required mass removal (Option 4)	40 CFR 63.7886(b)(4)(ii) 63.684(e)(4)	P/ Dependent on written procedures & operating plan	Dependent on written procedures & operating plan
40 CFR 63 Subpart GGGGG Containers							

**Table VII – A.1
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2758 - Refinery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gaps	40 CFR 63.7902(a) [63.926(a)(1) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated material already in container)	40 CFR 63.926(a)(1)	P/ Before or on date of container acceptance	Visual Inspection
Gaps	40 CFR 63.7902(a) [63.926(a)(2) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated containers unopened > 1 year)	40 CFR 63.7903(c)(2)) 63.7903(d)(3) 63.926(a)(2)	P/A	Visual Inspection
Gaps	40 CFR 63.7902(a) 63.7903(c)(3) 63.7903(d)(4) [63.926(a)(3) reference]	Y		Transfer regulated material from defective container within 5 calendar days of detection of defect; or Make 1 st attempt at repair within 24 hours & repair defect within 5 calendar days of detection of defect	None	N	N/A
40 CFR 63 Subpart GGGGG Transfer Systems							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1 st attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspection

Table VII – A.2
Applicable Limits and Compliance Monitoring Requirements

Facility B2759 - Amorco

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
For limits and monitoring requirements associated with the Refinery Emissions Cap Condition 8077 see Table VII-M.1							
Benzene	40 CFR 61.342(e)(2)(i)) 63.647(a)	Y		6.0 Mg/yr (6.6 tons/yr) [Facility-wide limit combined with Facility B2758]	40 CFR 61.356(b)(4)	N	Records
Ambient H ₂ S	BAAQMD 9-2-301	N		Ground level concentrations of 0.06 ppm for 3 min or 0.03 ppm for 60 min	BAAQMD 9-2-501	P/As required by APCO consistent with Regulation 9-2-501	Area Monitoring
POC	40 CFR 61.345(a)(1)(i))	Y		Container openings leak ≤ 500 ppm	40 CFR 61.345(a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.345(b)	Y		Containers closed & properly gasketed	40 CFR 61.345(b)	P/Q	Visual Inspection
POC	40 CFR 61.345(c)	Y		Container broken seals & gaskets repaired within 15 days	40 CFR 61.345(g)	P/Q	Reports
Ambient SO ₂	BAAQMD 9-1-301	Y		Ground level concentrations of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.5 ppm for 24 hours	BAAQMD 9-1-501	P/As required by APCO consistent with BAAQMD 9-1-501	Area Monitoring
SO ₂	BAAQMD 9-1-304	Y		Sulfur content ≤ 0.5% (liquid fuels) where burning such fuel would produce emissions of 300 ppmvd SO ₂	BAAQMD 9-1-602	N	BAAQMD MOP Method 10
PM	BAAQMD 8-40-304	Y		Exposed surface area ≤ 6,000 square feet (Active storage pile)	None	N	N/A
PM	BAAQMD 8-40-305	Y		Cover contaminated soil with heavy duty plastic sheeting when inactive > one hour	None	N	N/A

Table VII – A.2
Applicable Limits and Compliance Monitoring Requirements

Facility B2759 - Amorco

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		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1 8-5-605.2	P/E	Method 21 Inspection At least four consecutive measurements performed at intervals no shorter than 15 minutes each.
VOC	SIP 8-5-328.1	Y		< 10,000 ppm organic concentration (Degassing)	BAAQMD 8-5-328.1.2 8-5-605	P/E	Method 21 Inspection
VOC	BAAQMD 8-5-328.1	N		90% abatement efficiency (tank degassing)	BAAQMD 8-5-502.2 8-5-603	P/ Within 12 months prior to abatement use or during operation	Source Test
VOC	SIP 8-5-328.1.2	N		90% abatement efficiency (tank degassing)	SIP 8-5-502 8-5-603.2	P/ A	Source Test
VOC	BAAQMD 8-5-331	N		90% abatement efficiency (tank cleaning)	BAAQMD 8-5-502.2 8-5-603	P/A	Source Test
VOC	BAAQMD 8-5-331	N		90% abatement efficiency (tank cleaning)	BAAQMD 8-5-502.2 8-5-603	P/ A	Source Test
VOC	BAAQMD 8-5-332.1	N		No liquid leakage [Sludge containers]	None	N	N/A
VOC	BAAQMD 8-5-332.2	N		Gaps ≤ 1.3 cm (1/2 inch) [Sludge containers]	None	N	N/A

**Table VII – A.2
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2759 - Amorco

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 8-40-306.4	Y		Within 45 days of excavation or 90 days of < 500 ppmw, cover with ≥ 6" uncontaminated soil or remove all contaminated soil from site or initiate treatment	BAAQMD 8-40-601.3 (≤ 250 cubic yds) 8-40-601.4 (> 250 cubic yds)	P/E	Sample every 50 cubic yds excavated (≤ 250 cubic yds) Sample every 100 cubic yds excavated (> 250 cubic yds)
VOC	BAAQMD 8-40-306.6	Y		During periods of inactivity > 12 hours, Backfilled contaminated soil covered with ≥ 6" un contaminated soil or continuous heavy duty plastic sheeting	None	N	N/A
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 3.81 cm Total gap surface area ≤ 212 cm ² per meter of tank diameter	40 CFR 60.113b(b)(1)(i) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Primary seal gap measurements
VOC	40 CFR 60.113b(b)(2) 60.113b(b)(3) 60.113b(b)(4)	Y		Gap width ≤ 1.27 cm Total gap surface area ≤ 21.2 cm ² per meter of tank diameter	40 CFR 60.113b(b)(1)(ii) 60.113b(b)(1)(iii)	P/ Within 60 days of initial fill after 1 year OOS	EFR Secondary seal gap measurements
VOC	Condition 19528 Part 12	Y		Tank TVP ≤ 0.5 psia [8-5-117 exemption]	Condition 19528 Part 12	P/E on change of material stored	Reference table or lab analysis
40 CFR 63 Subpart GGGGG							
Exemption	40 CFR 63.7884(b)	Y		Complete site remediation within 30 consecutive days (40 CFR Subpart GGGGG Exemption)	40 CFR 63.7884(b)(3)	N	Records

Table VII – A.2
Applicable Limits and Compliance Monitoring Requirements

Facility B2759 - Amorco

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 63.7886(b)(1)(i)	Y		For Tanks: Comply with 63.7895-7898 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(ii)	Y		For Containers: Comply with 63.7900-7903 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
HAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
HAP	40 CFR 63.7886(b)(4)(i) 63.684(b)(4)	Y		≥ 95% HAP reduction efficiency or HAP removed by biological degradation ≥ required mass removal (Option 4)	40 CFR 63.7886(b)(4)(ii) 63.684(e)(4)	P/ Dependent on written procedures & operating plan	Dependent on written procedures & operating plan
40 CFR 63 Subpart GGGGG Containers							
Gaps	40 CFR 63.7902(a) [63.926(a)(1) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated material already in container)	40 CFR 63.926(a)(1)	P/ Before or on date of container acceptance	Visual Inspection

**Table VII – A.2
 Applicable Limits and Compliance Monitoring Requirements**

Facility B2759 - Amorco

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gaps	40 CFR 63.7902(a) [63.926(a)(2) reference]	Y		No visible cracks, holes, gaps, or other open spaces (Regulated containers unopened > 1 year)	40 CFR 63.7903(c)(2) 63.7903(d)(3) 63.926(a)(2)	P/A	Visual Inspection
Gaps	40 CFR 63.7902(a) 63.7903(c)(3) 63.7903(d)(4) [63.926(a)(3) reference]	Y		Transfer regulated material from defective container within 5 calendar days of detection of defect; or Make 1 st attempt at repair within 24 hours & repair defect within 5 calendar days of detection of defect	None	N	N/A
40 CFR 63 Subpart GGGGG Transfer Systems							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1 st attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspection

Section B Process Units & Misc

**Table VII – B.1
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – B.2
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – B.3
 Applicable Limits and Compliance Monitoring Requirements**

S850 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit)
S1003 - Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)
S1008 - Diesel HDO Unit No. 1 (formerly 1st Stage Hydrocracker Unit)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput (S850, S1003, S1008)	BAAQMD Condition 27584, Part 1	Y		67,000 bbl/day 17,500,000 bbl/12 consecutive months (S850, S1003, and S-1008 combined)	BAAQMD Condition 27584, Part 8	P/D	Records
Throughput (S850)	BAAQMD Condition 27584, Part 2	Y		23,000 bbl/day 7,300,000 bbl/12 consecutive months	BAAQMD Condition 27584, Part 8	P/D	Records
Throughput (S1003)	BAAQMD Condition 27584, Part 3	Y		20,000 bbl/day 6,570,000 bbl/12 consecutive months	BAAQMD Condition 27584, Part 8	P/D	Records
Throughput (S1008)	BAAQMD Condition 27584, Part 4	Y		24,000 bbl/day 7,300,000 bbl/12 consecutive months	BAAQMD Condition 27584, Part 8	P/D	Records
POC (S850)	BAAQMD Condition 27596, Part 15	Y		POC ≤ 1.96 lbs/hr POC ≤ 8.593 tons/yr	BAAQMD Condition 27596, Part 15	P/Q	Records

**Table VII – B.3
Applicable Limits and Compliance Monitoring Requirements**

S850 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit)

S1003 - Diesel HDO Unit No. 2 (formerly No. 2 HDS Unit)

S1008 - Diesel HDO Unit No. 1 (formerly 1st Stage Hydrocracker Unit)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC (S1003)	BAAQMD Condition 27596, Part 16	Y		POC ≤ 1.57 lbs/hr POC ≤ 6.864 tons/yr	BAAQMD Condition 27596, Part 16	P/Q	Records
POC (S1008)	BAAQMD Condition 27596, Part 18	Y		POC ≤ 1.15 lbs/hr POC ≤ 5.049 tons/yr	BAAQMD Condition 27596, Part 18	P/Q	Records

**Table VII – B.4
Applicable Limits and Compliance Monitoring Requirements**

**S1002 - Propane Dryers (formerly No. 1 HDS Unit)
S1105 - No. 4 HDS Unit**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put (S1002)	BAAQMD Condition 27584, Part 5	Y		6,000 bbl/day 1,460,000 bbl/12 consecutive months	BAAQMD Condition 27584, Part 8	P/D	Records
Through-put (S1105)	BAAQMD Condition 19199, Part G0	Y		40,080 bbls hydrocarbon material/calendar day	BAAQMD Condition 19199, Part G9	P/D	Records

**Table VII – B.5
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – B.6
 Applicable Limits and Compliance Monitoring Requirements**

S1005 - No. 1 Hydrogen Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC CO2 Vents #1 & #2	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601 BAAQMD Condition 22070, Part 1	P/2-year	Biennial Source Test
Through-put	BAAQMD Condition 24321, Part 1	Y		93 mmscf/day 31,025 mmscf/year Hydrogen production	BAAQMD Condition 24321, Part 2	P/D	Records
TOC	BAAQMD 13-5-301	N	5/4/2025 Or Within three years of receiving an Authority to Construct from the Air District	< 300 ppm POC and < 15 lb/day (expressed as methane, on a dry basis)	BAAQMD 13-5-501.1 & 13-5-501.2	P/D P/D C C C	Records TOC Sampling Temperature CPMS Flow Rate & Volume CPMS Pressure CPMS

Table VII – B.7
Applicable Limits and Compliance Monitoring Requirements

S1038 - Benzene Saturation Unit

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 23258, Part 1	Y		5,475,000 barrels of feed to S-1038 during any 12 consecutive month period.	BAAQMD Condition 23258, Part 5	P/D	Records

Table VII – B.8
Applicable Limits and Compliance Monitoring Requirements

S1007 - Diesel Isomerization Unit (formerly 2nd Stage Hydrocracker Unit)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 27584, Part 6	Y		58,000 bbl/calendar day 48,000 bbl/day, rolling 365-day average	BAAQMD Condition 27584, Part 8	P/D	Records
POC	BAAQMD Condition 27596, Part 17	Y		POC ≤ 1.69 lbs/hr POC ≤ 7.395 tons/yr	BAAQMD Condition 27596, Part 17	P/Q	Records
TVP	BAAQMD Condition 22455, Part 13	Y		TVP of Renewable Diesel ≤ 0.012 psia, consecutive 12 month period average	BAAQMD Condition 27583, Part 18	P/W	Sampling and Testing

**Table VII – B.9
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – B.10
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – B.11
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – B.12
 Applicable Limits and Compliance Monitoring Requirements**

S1555 - Reformate Splitter

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	BAAQMD Condition 25476 Part 2	Y		40,000 barrels per calendar day	BAAQMD Condition 25476 Part 24	P/D	Records

**Table VII – B.13
 Applicable Limits and Compliance Monitoring Requirements**

**S1600 - Foul Water Strippers, Abated by
 A-2002 H2S Adsorption Vessels
 A-2000 Sour Water Stripper Thermal Oxidizer**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
TSP	BAAQMD 6-1-310.1 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
TSP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
Throughput	BAAQMD Condition 27586, Part 1	Y		47,870 barrels/calendar day 13,706,224 barrels/12 consecutive months	None	N	N/A
H2S	BAAQMD Condition 27586, Part 2 BAAQMD Condition 27591, Part 13	N		No H2S emissions shall be emitted into the atmosphere	BAAQMD Condition 27591, Part 14	P/M	Records
NH3	BAAQMD Condition 27586, Part 3 BAAQMD Condition 27591, Part 13	N		0.11 lbs/hr 963.6 lbs/12 consecutive months	BAAQMD Condition 27591, Part 14	P/M	Records

**Table VII – B.13
Applicable Limits and Compliance Monitoring Requirements**

**S1600 - Foul Water Strippers, Abated by
A-2002 H2S Adsorption Vessels
A-2000 Sour Water Stripper Thermal Oxidizer**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SAM	BAAQMD Condition 27586, Part 4 BAAQMD Condition 27591, Part 13	Y		7.9E-04 lbs/hr 6.9 lbs/12 consecutive months	BAAQMD Condition 27591, Part 14	P/M	Records

Section C Combustion Sources

Section C.1 Combustion – Boilers

**Table VII – C.1.1
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – C.1.2
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – C.1.3
 Applicable Limits and Compliance Monitoring Requirements**

S1550, S1551, S1553, S1558, and S1559 Backup Boilers

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A

Table VII – C.1.3
Applicable Limits and Compliance Monitoring Requirements
S1550, S1551, S1553, S1558, and S1559 Backup Boilers

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate	Condition 24491 Part 1	Y		99 MMBTU/hr each Natural gas only	Condition 24491 Part 11	P/E	Records
Unabated Operation	Condition 24491 Part 4	Y		Operation without SCR limited to 384 hours per consecutive 12-month period total for both boilers during SU and SD events (48 hours per event (SU or SD))	Condition 24491 Part 11	P/E	Records
Fuel Consumption	Condition 24491 Part 6	Y		Total, combined firing of S1550, S1551, S1553, S1558 and S1559 will not exceed 12,319,560 therms in any 12 consecutive month period	Condition 24491 Part 5	C	Fuel Flow CPMS
NOx	Condition 24491 Part 7	Y		< 7 ppmvd @ 3% O2 except during startup and shutdown events (48 hours per boiler per SU or SD event)	Condition 24491 Part 10	P/E	Source test
NOx	Condition 24491, Part 8	Y		< 30 ppmvd @ 3% O2 during startup and shutdown events (48 hours per boiler per SU or SD event)	Condition 24491, Part 10	P/E	Source test
CO	Condition 24491 Part 9	Y		< 50 ppmvd @ 3% O2	Condition 24491 Part 10	P/E	Source test
SO2				None	Condition 24491 Part 10	P/E	Source test
POC				None	Condition 24491 Part 10	P/E	Source test

Section C.2 Combustion - Flares

**Table VII – C.2.1
 Applicable Limits and Compliance Monitoring Requirements**

**Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992 - Emergency Flare, S1012 - West Air Flare,
 S1517 - Coker Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition 26791, Part 3	Y		Natural gas as supplemental flare gas \leq 14,000 therms/hour and 1,700,000 therms in any consecutive 12-month period	Condition 26791, Part 5	C	Gas flow rate monitor
SO ₂	60.104(a)(1)	Y		H ₂ S in fuel gas burned \leq 230 mg/dscm (0.1 gr/dscf), except process upset gases, relief valve leakage or emergency malfunctions	40 CFR 60.105(a)(4)(iv) exemption from 40 CFR 60.105(a)(4) and 60.105(e)(3)	P/E Within 15 Days of Loss of Exemption	Monitoring of flare gas composition and records
SO ₂	40 CFR 60.104(a)(1)	Y		H ₂ S in fuel gas burned < 230 mg/dscm (0.1 gr/dscf), except process upset gases, relief valve leakage or emergency malfunctions	Condition 24324, Part 2	SO ₂	40 CFR 60.104(a)(1)
VOC, HAP	None	N		No limit	BAAQMD 12-11-501 12-11-505	P/C	Flow Rate
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.1 12-11-505	P/E	Composition
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.3 12-11-505	P/E	Composition
Pilot Flame	None	N		No limit	BAAQMD 12-11-503 12-11-505	P/C	Flame Detector

**Table VII – C.2.1
 Applicable Limits and Compliance Monitoring Requirements
 Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992 - Emergency Flare, S1012 - West Air Flare,
 S1517 - Coker Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Pilot flame presence	63.670(b) via 63.2380(a)	Y		Operate with a pilot flame or flare flame present at all times regulated material is routed to flare Each 15-minute block with at least one minute with no pilot flame or flare flame when regulated material is routed to the flare is a deviation	63.670(g) 63.2380(a)	C	Flame detector
Pilot flame presence	63.670(b) via 63.2450(e)(5)	Y		Operate with a pilot flame or flare flame present at all times regulated material is routed to flare Each 15-minute block with at least one minute with no pilot flame or flare flame when regulated material is routed to the flare is a deviation	63.670(g) 63.2450(e)(5)	C	Flame detector
Pilot/ Purge Gas	None	N		No limit	BAAQMD 12-11-504 12-11-505	P/C	Purge Gas Flow Rate
Flame Detection	None	N		No limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording
Visible Emissions	None	Y		No limit	BAAQMD Condition 19528, Part 11B, 11C	P/ 30 minutes	Video monitoring/ visual inspection

Table VII – C.2.1
Applicable Limits and Compliance Monitoring Requirements
Flares Subject to NSPS via Consent Decree Condition 24324
S854 - East Air Flare, S992 - Emergency Flare, S1012 - West Air Flare,
S1517 - Coker Flare

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible emissions	63.670(c) via 63.2380(a)	Y		Operate with no visible emissions, except for a period not to exceed a total of 5 minutes during any 2 consecutive hours when regulated material is routed to the flare (when used to reduce organic HAP emissions pursuant to 63.2380(a))	63.670(h)(2) 63.2380(a)	C	Video surveillance camera
Visible emissions	63.670(c) via 63.2450(e)(5)	Y		Operate with no visible emissions, except for a period not to exceed a total of 5 minutes during any 2 consecutive hours when regulated material is routed to the flare and the flare vent gas flow rate is < smokeless design capacity (when used to reduce organic HAP emissions pursuant to 63.2450(e)(5))	63.670(h)(2) 63.2450(e)(5)	C	Video surveillance camera
Flare tip velocity	63.670(d) via 63.2380(a)	Y		When regulated material is routed to the flare for at least 15 minutes: Vtip < 60 ft/sec OR Vtip < 400 ft/sec and Vtip < Vmax as calculated using equation in 63.670(d)(2) (when used to reduce organic HAP emissions pursuant to 63.2380(a))	63.670(k) 63.2380(a)	C	Volumetric flow monitoring and Composition

Table VII – C.2.1
Applicable Limits and Compliance Monitoring Requirements
Flares Subject to NSPS via Consent Decree Condition 24324
S854 - East Air Flare, S992 - Emergency Flare, S1012 - West Air Flare,
S1517 - Coker Flare

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Flare tip velocity	63.670(d) 63.2450(e)(5)	Y		When regulated material is routed to the flare for at least 15 minutes and the flare vent gas flow rate is < smokeless design capacity: Vtip < 60 ft/sec OR Vtip < 400 ft/sec and Vtip < Vmax as calculated using equation in 63.670(d)(2)	63.670(k) 63.2450(e)(5)	C	Volumetric flow monitoring and Composition
Net heating value of flare combustion zone gas	63.670(e) 63.2380(a)	Y		NHVcz ≥ 270 Btu/scf on a 15-minute block period basis when regulated material is routed to the flare for ≥ 15 minutes (when used to reduce organic HAP emissions pursuant to 63.2380(a)	63.670(m) 63.2380(a)	C	Volumetric flow monitoring and Composition
Net heating value of flare combustion zone gas	63.670(e) 63.2450(e)(5)	Y		NHVcz ≥ 270 Btu/scf on a 15-minute block period basis when regulated material is routed to the flare for ≥ 15 minutes (when used to reduce organic HAP emissions pursuant to 63.2450(e)(5)	63.670(j)(6) 63.2450(e)(5)	C	Volumetric flow monitoring and Composition
PM	BAAQMD 6-1-310.1	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**Table VII – C.2.1
 Applicable Limits and Compliance Monitoring Requirements
 Flares Subject to NSPS via Consent Decree Condition 24324
 S854 - East Air Flare, S992 - Emergency Flare, S1012 - West Air Flare,
 S1517 - Coker Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Water Seal	None	N		No limit	BAAQMD 12-12-501	C	Water Seal pressure and water level
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Sulfur	40 CFR 60.105(a)(4)(iv)(A)	Y		Exemption for exempt fuel gas streams – pilot gas for flares	40 CFR 60.107(e)	N	Records
The following requirements apply only to S1517							

**Table VII – C.2.1
Applicable Limits and Compliance Monitoring Requirements
Flares Subject to NSPS via Consent Decree Condition 24324
S854 - East Air Flare, S992 - Emergency Flare, S1012 - West Air Flare,
S1517 - Coker Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S (S1517)		Y		No limit	BAAQMD Condition 23129, Part 55	C	H2S Monitoring System
POC (S1517)	BAAQMD Condition 23129, Part 52	Y		98.5 wt.% POC abatement efficiency (mass basis)	None	N	N/A
Through-put (S1517)	BAAQMD Condition 23129, Part 53	Y		14,235,000 scf natural gas/ consecutive 12-month period (Flare Purge and Pilot)	BAAQMD 12-11-501	C	Flow Meter

**Table VII – C.2.2
 Applicable Limits and Compliance Monitoring Requirements**

S943 - Butane Tank 691 Safety Flare

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	None	Y		No limit	BAAQMD Condition 19528, Part 11B, 111C	P/ 30 minutes	Video monitoring/ visual inspection
PM	BAAQMD 6-1-310.1	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD 6-1-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**Table VII – C.2.2
Applicable Limits and Compliance Monitoring Requirements**

S943 - Butane Tank 691 Safety Flare

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	SIP 6-401 BAAQMD Condition 19528, Part 11B, 11C, 11D and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

NOTE – S943 OPERATION. S943 IS THE TANK 691 (REFRIGERATED BUTANE TANK S691) SAFETY FLARE. DURING ROUTINE OPERATION, THE BUTANE TANK IS ABATED BY A REFRIGERATION SYSTEM A21. A21 FUNCTIONS AS A FLARE GAS RECOVERY SYSTEM AND CONTROLS THE TEMPERATURE AND THUS THE PRESSURE IN THE TANK TO MAINTAIN THE BUTANE AS A LIQUID AND PREVENT RELEASE OF BUTANE VAPOR. BUTANE IS ROUTED TO AND FLARED IN S943 ONLY DURING NON-ROUTINE OPERATIONS WHEN THE TEMPERATURE AND PRESSURE IN THE TANK INCREASES AND BUTANE VAPOR IS RELEASED.

**Table VII – C.2.3
 Applicable Limits and Compliance Monitoring Requirements**

**Flares not subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	Condition 26791, Part 3	Y		Natural gas as supplemental flare gas ≤ 14,000 therms/hour and 1,700,000 therms in any consecutive 12-month period	Condition 26791, Part 5	C	Gas flow rate monitor
VOC, HAP	None	N		No limit	BAAQMD 12-11-501 & 12-11-505	P/C	Flow Rate
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.1 & 12-11-505	P/E	Composition
VOC, HAP	None	N		No limit	BAAQMD 12-11-502.3 & 12-11-505	P/E	Composition
Pilot Flame	None	N		No limit	BAAQMD 12-11-503 & 12-11-505	P/C	Flame Detector
Pilot/ Purge Gas	None	N		No limit	BAAQMD 12-11-504 & 12-11-505	P/C	Purge Gas Flow Rate
Flame Detection	None	N		No limit	BAAQMD 12-11-507	P/C	1 frame per minute image video recording
Visible Emissions	None	Y		No Limit	BAAQMD Condition 19528, Parts 11B, 11C	P/30 minutes	Video Monitoring/ visual inspection
Water seal	None	N		No Limit	BAAQMD 12-12-501	C	Water Seal pressure and water level

**Table VII – C.2.3
 Applicable Limits and Compliance Monitoring Requirements**

**Flares not subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD 6-1-401 BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Emissions	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E; SIP 6-401	P/E	Gas Flow Meter along with Visual Inspection and Records
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	BAAQMD 6-1-310.1	N		0.15 grain/dscf	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records
PM	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Parts 11B, 11C, 11D, and 11E	P/E	Gas Flow Meter along with Visual Inspection and Records

**Table VII – C.2.3
 Applicable Limits and Compliance Monitoring Requirements**

**Flares not subject to NSPS
 S944 - North Steam Flare
 S945 - South Steam Flare**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible emissions	63.670(c) via 63.2380(a)	Y		Operate with no visible emissions, except for a period not to exceed a total of 5 minutes during any 2 consecutive hours when regulated material is routed to the flare (when used to reduce organic HAP emissions pursuant to 63.2380(a))	63.670(h)(2) 63.2380(a)	C	Video surveillance camera
Visible emissions	63.670(c) via 63.2450(e)(5)	Y		Operate with no visible emissions, except for a period not to exceed a total of 5 minutes during any 2 consecutive hours when regulated material is routed to the flare and the flare vent gas flow rate is < smokeless design capacity (when used to reduce organic HAP emissions pursuant to 63.2450€(5))	63.670(h)(2) 63.2450€(5)	C	Video surveillance camera
Flare tip velocity	63.670(d) via 63.2380(a)	Y		When regulated material is routed to the flare for at least 15 minutes: Vtip < 60 ft/sec OR Vtip < 400 ft/sec and Vtip < Vmax as calculated using equation in 63.670(d)(2) (when used to reduce organic HAP emissions pursuant to 63.2380(a))	63.670(k) 63.2380(a)	C	Volumetric flow monitoring and Composition

Table VII – C.2.3
Applicable Limits and Compliance Monitoring Requirements

Flares not subject to NSPS
S944 - North Steam Flare
S945 - South Steam Flare

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Flare tip velocity	63.670(d) via 63.2450(e)(5)	Y		When regulated material is routed to the flare for at least 15 minutes and the flare vent gas flow rate is < smokeless design capacity: $V_{tip} < 60 \text{ ft/sec}$ OR $V_{tip} < 400 \text{ ft/sec}$ and $V_{tip} < V_{max}$ as calculated using equation in 63.670(d)(2) (when used to reduce organic HAP emissions pursuant to 63.2450(e)(5))	63.670(k) 63.2450(e)(5)	C	Volumetric flow monitoring and Composition
Net heating value of flare combustion zone gas	63.670(e) via 63.2380(a)	Y		$NHV_{cz} \geq 270 \text{ Btu/scf}$ on a 15-minute block period basis when regulated material is routed to the flare for ≥ 15 minutes (when used to reduce organic HAP emissions pursuant to 63.2380(a))	63.670(m)(6) 63.2380(a)	C	Volumetric flow monitoring and Composition
Net heating value of flare combustion zone gas	63.670(e) via 63.2450(e)(5)	Y		$NHV_{cz} \geq 270 \text{ Btu/scf}$ on a 15-minute block period basis when regulated material is routed to the flare for ≥ 15 minutes (when used to reduce organic HAP emissions pursuant to 63.2450(e)(5))	63.670(m) 63.2450(e)(5)	C	Volumetric flow monitoring and Composition

**Table VII – C.2.4
Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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Section C.3 Combustion - Internal Combustion Engines

**Table VII – C.3.1
 Applicable Limits and Compliance Monitoring Requirements**

**Facility B2759
 S57 - Off-Shore/Wharf Fire-Water Pump Diesel Engine**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	NA
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	NA
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	NA
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	NA
Hours of operation	CCR, Title 17, Section 93115.3(n)	N		< 34 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(g)	M	Records
					CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Meter
Hours of operation	BAAQMD Condition 22851, Part 1	Y		< 50 hours/year for reliability-related activities	BAAQMD Condition 22851, Part 3 BAAQMD 9-8-530	C	Totalizing meter
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter

**Table VII – C.3.1
 Applicable Limits and Compliance Monitoring Requirements**

**Facility B2759
 S57 - Off-Shore/Wharf Fire-Water Pump Diesel Engine**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A

**Table VII – C.3.2
 Applicable Limits and Compliance Monitoring Requirements**

**S952 - Internal Combustion Engine,
 S953 - Internal Combustion Engine,
 S954 - Internal Combustion Engine
 Spark Ignition, 4 Stroke, Rich Burn Engines,
 each abated by non-selective catalytic reduction**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
NOx	BAAQMD 9-8-301.1	N		25 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	P/ Quarterly	Portable Analyzer Monitoring
NOx	SIP 9-8-301.1	Y		56 ppmv, dry, at 15% oxygen	None	N	N/A
CO	BAAQMD 9-8-301.3	Y		2000 ppmv, dry, at 15% oxygen	BAAQMD 9-8-503	P/Quarterly	Portable Analyzer Monitoring

**Table VII – C.3.2
Applicable Limits and Compliance Monitoring Requirements**

**S952 - Internal Combustion Engine,
S953 - Internal Combustion Engine,
S954 - Internal Combustion Engine
Spark Ignition, 4 Stroke, Rich Burn Engines,
each abated by non-selective catalytic reduction**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
Natural gas flow	None	Y		None	BAAQMD Condition 8077, Part B4D	C	Natural gas flow meter (combined flow to engines)
Formaldehyde	63.6602 Table 2c to Subpart ZZZZ of Part 63	Y		Concentration of formaldehyde in the exhaust to 10.3 ppmvd or less at 15 percent O ₂	63.6612(a)	N	N/A Initial Compliance Test Completed

**Table VII – C.3.3
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – C.3.4
 Applicable Limits and Compliance Monitoring Requirements**

**S1471 - Landsend Fire Water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
NOx (S1487)	BAAQMD Condition 20672, Part A5	Y		9.65 g/bhp-hr	None	N	N/A
CO (S1487)	BAAQMD Condition 20672, Part A6	Y		1.71 g/bhp-hr	None	N	N/A

**Table VII – C.3.4
 Applicable Limits and Compliance Monitoring Requirements**

**S1471 - Landsend Fire Water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A
Sulfur Content (S1487)	B AAQMD Condition 20672, Part A8	Y		15 ppmw	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.3(n)	N		< 34 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(g)	M	Records
					CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Meter
Hours of operation	BAAQMD Condition 22851, Part 1	N		< 34 hours/year for reliability-related activities	BAAQMD Condition 22851, Part 3	C	Totalizing meter
					BAAQMD Condition 22851, Part 4	M	Records
Hours of operation	40 CFR 63.6640(f)(2)	Y		< 100 hours/year for maintenance checks and readiness testing required by Federal, state or local government or manufacturer	40 CFR 63.6625(f)	C	Totalizing meter
					40 CFR 63.6655(f) 63.6660	M	Records
Hours of operation		Y		< 50 hours/year for non-emergency situations,	40 CFR 63.6625(f)	C	Totalizing meter

**Table VII – C.3.4
 Applicable Limits and Compliance Monitoring Requirements**

**S1471 - Landsend Fire Water Pump Engine; Diesel Fired,
 S1472 - Tract 4 North Fire Water Pump Engine; Diesel Fired,
 S1487 - Tank 38 Firewater Pump Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	40 CFR 63.6640(f)(3)			counted a part of the 100 hours of (f)(2)	40 CFR 63.6655(f) 63.6660	M	Records
Idle during Startup	40 CFR 63.6625(h) 40 CFR 63 Subpart ZZZZ, Table 2c.1	Y		< 30 minutes	40 CFR 63.6625(f)	C	Totalizing meter
					40 CFR 63.6655(f) 63.6660	M	Records
Work and Maintenance Practices	40 CFR 63.6602 40 CFR 63.6625(i) 40 CFR 63 Subpart ZZZZ, Table 2c.1	Y		Oil change; inspect air cleaner; inspect belts and hoses; OPTIONAL oil analysis program	40 CFR 63.6625(i) 40 CFR 63 Subpart ZZZZ, Table 2c.1	P/A or as specified in 40 CFR 63 Subpart ZZZZ, Table 2c.1	Manufacturer's written instructions or Owner's Maintenance Plan

**Table VII - C.3.5
 Applicable Limits and Compliance Monitoring Requirements**

S1488 - Canal Fire-Water Pump Diesel Engine

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO (S1488)	BAAQMD Condition 20672, Part B6	Y		1.15 g/bhp-hr	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.3(n)	N		< 34 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	BAAQMD Condition 22851, Part 1	Y		< 34 hours/year for reliability related activities	BAAQMD Condition 22851, Part 3	C	Totalizing meter
					BAAQMD Condition 22851, Part 4	M	Records
NOx (S1488)	BAAQMD Condition 20672, Part B5	Y		8.0 g/bhp-hr	None	N	N/A
PM10 (S1488)	BAAQMD Condition 20672, Part B7k	Y		0.22 g/bhp-hr	None	N	N/A
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	N/A

**Table VII - C.3.5
Applicable Limits and Compliance Monitoring Requirements**

S1488 - Canal Fire-Water Pump Diesel Engine

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions (S1488)	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions (S1488)	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

**Table VII – C.3.6
 Applicable Limits and Compliance Monitoring Requirements**

**S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired
 S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC + NOx	40 CFR 60.4205(c)A TCM 93115.6 (a)(4)	Y		7.8 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(c) ATCM 93115.6 (a)(4)	Y		2.6 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
PM	40 CFR 60.4205(c) ATCM 93115.6 (a)(4)	Y		0.40 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A
SO2	40 CFR 60.4207(b)	Y		Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A

**Table VII – C.3.6
 Applicable Limits and Compliance Monitoring Requirements**

**S1518 - North Reservoir West Fire Water Pump Engine; Diesel Fired
 S1519 - North Reservoir East Fire Water Pump Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	None
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.6(a)(4)(A)(1)(c)	N		Not operate more than the number of hours necessary to comply with testing requirements of NFPA 25, excluding engine operation for emergency use and for emission testing	CCR, Title 17, Section 93115.10(c)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	40 CFR 60.4211(f)(2) 63.4200 (f)(2)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	40 CFR 60.4211 (f)(3) 63.4200 (f)(3)	Y		< 50 hours/year for non-emergency operation	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	BAAQMD Condition 22851, Part 1	N		34 hours/year each engine (non-emergency)	BAAQMD Condition 22851, Part 3	C	Totalizing meter
					BAAQMD Condition 22851, Part 4	M	Records

**Table VII – C.3.7
 Applicable Limits and Compliance Monitoring Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	None
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A
SO2	40 CFR 60.4207(b)	Y		Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records

**Table VII – C.3.7
 Applicable Limits and Compliance Monitoring Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	40 CFR 60.4211(f)	Y		50 hours/year non-emergency operation	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	40 CFR 60.4211(f)(2)	Y		< 100 hours/year for maintenance and readiness checks, demand response, voltage deviations	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation (S58, S1552, S1561)	BAAQMD Condition 23811, Part 1	N		50 hours/year each engine (non-emergency)	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
					BAAQMD 9-8-502.1 & 9-8-530 BAAQMD Condition 23811, Part 4	M	Records
Hours of operation (S1599)	BAAQMD Condition 22850, Part 1	N		50 hours/year each engine (non-emergency)	BAAQMD 9-8-530 BAAQMD Condition 22850, Part 3	C	Totalizing meter

**Table VII – C.3.7
 Applicable Limits and Compliance Monitoring Requirements**

**S58 - Emergency Standby Generator Engine; Diesel Fired
 S1552 - No 1 Pump Station Water Pump Engine; Diesel Fired
 S1561 - Wharf Berth 1A Emergency Generator Engine; Diesel Fired
 S1599 - Emergency Standby Diesel Pump at Surge Pond 2; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					BAAQMD 9-8-502.1 & 9-8-530 BAAQMD Condition 22850, Part 4	M	Records
HC	40 CFR 60.4205(a)	Y		1.0 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
NOx	40 CFR 60.4205(a)	Y		6.9 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(a)	Y		8.5 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
PM	40 CFR 60.4205(a)	Y		0.40 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions

**Table VII – C.3.8
 Applicable Limits and Compliance Monitoring Requirements**

**S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
 S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel	None	N	None
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A
SO2	40 CFR 60.4207(b)	Y		Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.6(a)(3)(A)(1)(c)	N		< 50 hours/year for maintenance and testing	CCR, Title 17, Section 93115.10(e)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records

**Table VII – C.3.8
 Applicable Limits and Compliance Monitoring Requirements**

**S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
 S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Hours of operation	40 CFR 60.4211(e)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	40 CFR 63.6640 (f)(1)(ii)	Y		< 100 hours/year for readiness testing	40 CFR 63.6625(f)	C	Totalizing meter
Hours of operation	40 CFR 63.6640 (f)(1)(iii)	Y		< 50 hours/year for non-emergency and not readiness testing	40 CFR 63.6625(f)	C	Totalizing meter
Hours of operation	BAAQMD Condition 23811, Part 1 ATCM 93115.6 (a)(3) (A)(1)(c)	N		50 hours/year each engine (non-emergency)	BAAQMD 9-8-530 BAAQMD Condition 23811, Part 3	C	Totalizing meter
					BAAQMD 9-8-502.1 & 9-8-530 BAAQMD Condition 23811, Part 4	M	Records
NMHC + NOx	40 CFR 60.4205(b) ATCM 93115.6 (a)(3) (A)(1)(b)	Y		4.77 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(b) ATCM 93115.6 (a)(3) (A)(1)(b)	Y		2.61 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions

Table VII – C.3.8
Applicable Limits and Compliance Monitoring Requirements

S1557 - Central Maintenance Building Emergency Standby Generator Engine; Diesel Fired
S1572 - No. 4 Gas Plant Emergency Standby Generator Engine; Diesel Fired

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	40 CFR 60.4205(b) ATCM 93115.6 (a)(3) (A)(1)(b)	Y		0.15 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions

**Table VII – C.3.9
 Applicable Limits and Compliance Monitoring Requirements**

**S1562 - Avon Berth 1A East Diesel Firewater Pump
 S1563 - Avon Berth 1A West Diesel 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
NMHC + NOx	40 CFR 60.4205(c) ATCM 93115.6 (a)(4)	Y		2.94 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
CO	40 CFR 60.4205(c) ATCM 93115.6 (a)(4)	Y		1.72 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
PM	40 CFR 60.4205(c) ATCM 93115.6 (a)(4)	Y		0.07 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per mfg instructions
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets 500 ppm sulfur content per 40 CFR 80.510(a) requirements	None	N	N/A
SO2	40 CFR 60.4207(b)	Y		Use diesel fuel that meets 15 ppm sulfur content per 40 CFR 80.510(b) for nonroad diesel	None	N	N/A
Visible Emissions	BAAQMD 6-1-303.1	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-303.1	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	None	N	None
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A

**Table VII – C.3.9
 Applicable Limits and Compliance Monitoring Requirements**

**S1562 - Avon Berth 1A East Diesel Firewater Pump
 S1563 - Avon Berth 1A West Diesel 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	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
SO2	BAAQMD 9-1-304	Y		0.5% by weight sulfur content in liquid fuel or solid fuel creating emissions > 300 ppm	None	N	None
Hours of operation	BAAQMD 9-8-330.3	N		< 50 hours/year for reliability-related activities, except as necessary to comply with testing requirements of NFPA 25.	BAAQMD 9-8-530	C	Totalizing meter
					BAAQMD 9-8-520.1 & 9-8-530	M	Records
Hours of operation	CCR, Title 17, Section 93115.6 (a)(4)(A) (1)(c)	N		Not operate more than the number of hours necessary to comply with testing requirements of NFPA 25, excluding engine operation for emergency use and for emission testing.	CCR, Title 17, Section 93115.10(c)(1)	C	Totalizing Counter
					CCR, Title 17, Section 93115.10(g)	M	Records
Hours of operation	40 CFR 60.4211 (f)(2) 40 CFR 63.4200 (f)(2)	Y		< 100 hours/year for maintenance and readiness checks	40 CFR 60.4209(a)	C	Totalizing meter
Hours of operation	40 CFR 60.4211 (f)(3) 40 CFR 63.4200 (f)(3)	Y		< 50 hours/year for non-emergency operation	40 CFR 60.4209(a)	C	Totalizing meter

**Table VII – C.3.9
 Applicable Limits and Compliance Monitoring Requirements**

**S1562 - Avon Berth 1A East Diesel Firewater Pump
 S1563 - Avon Berth 1A West Diesel 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
Hours of operation	BAAQMD Condition 22851, Part 1	N		< 34 hours/year each engine (non-emergency)	BAAQMD Condition 22851, Part 3	C	Totalizing meter
					BAAQMD Condition 22851, Part 4	M	Records

Section C.4 Combustion - Process Heaters and Furnaces

**Table VII – C.4.1
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – C.4.2
 Applicable Limits and Compliance Monitoring Requirements**

**S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace, S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace, S937 - No. 1 Hydrogen Plant Furnace
 NSPS Subpart J by Consent Decree Condition 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O ₂), operating day average	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34	P/ Semi-annual	Source Test
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A

**Table VII – C.4.2
 Applicable Limits and Compliance Monitoring Requirements**

**S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace,
 S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace,
 S937 - No. 1 Hydrogen Plant Furnace
 NSPS Subpart J by Consent Decree Condition 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit			Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				S-	MM Btu/hr	MM Btu/day			
Firing Rate	Title V Permit Table IIA, BAAQMD Condition 16685, Part 1	Y					BAAQMD 9-10-502.2	C	Fuel Flowmeter
				920	63	1,512			
				926	130	3,120			
				928	20	480			
				929	20	480			
				930	20	480			
				931	20	480			
				932	20	480			
				933	20	480			
				934	135	3,240			
				935	135	3,240			
937	743	17,832							
Firing Rate (S920)	BAAQMD Condition 8350, Part B6	Y		551,880 MMBtu/yr			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S920)	BAAQMD Condition 8350, Part B6	Y		63 MMBtu/hr, on a calendar day basis			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S926)	BAAQMD Condition 25476, Part 6	Y		1,138,800 MMBtu/yr			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S926)	BAAQMD Condition 25476, Part 6	Y		130 MMBtu/hr of firing, on a calendar day basis			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S928 through S933)	BAAQMD Condition 8077, Part C3	Y		175,200 MMBtu/yr			BAAQMD 9-10-502.2	C	Fuel Flowmeter

**Table VII – C.4.2
 Applicable Limits and Compliance Monitoring Requirements**

**S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace,
 S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace,
 S937 - No. 1 Hydrogen Plant Furnace
 NSPS Subpart J by Consent Decree Condition 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Firing Rate (S928 through S933)	BAAQMD Condition 8077, Part C3	Y		20 MMBtu/hr of firing, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S934 and S935)	BAAQMD Condition 8077, Part C4	Y		1,182,600 MMBtu/yr	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S934 and S935)	BAAQMD Condition 8077, Part C4	Y		135 MMBtu/hr of firing, on a calendar day basis	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow (S920, S928 to S933)		N		No limit	BAAQMD Condition 8077, Part B4C	C	Fuel Flow meter
Fuel Flow (all)		N		No limit	BAAQMD Condition 8077, Part B4D	C	Fuel flow meter
H2S [in fuel gas]	BAAQMD Condition 23562, Part 1 40 CFR 60.104(a)(1) 60.105(e)(3) (ii)	Y		162 ppmv, dry, 3 hour rolling average	BAAQMD Condition 23562, Part 3 40 CFR 60.105(a)(4)	C	CEM
H2S (100 psi fuel gas system)				No limit	BAAQMD Condition 8077 Part B4D	C	H2S analyzer on 100 psi fuel gas mix pot
TS [in fuel gas]	BAAQMD Condition 27604, Part 1	Y		162 ppm	BAAQMD Condition 27604, Part 2	P/W	Sampling and Testing
NOx		N					

**Table VII – C.4.2
 Applicable Limits and Compliance Monitoring Requirements**

**S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace,
 S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace,
 S937 - No. 1 Hydrogen Plant Furnace
 NSPS Subpart J by Consent Decree Condition 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 9-10-308 BAAQMD Condition 18372, Part 37			Compliance with ANCP: 834.4 lbs NOx/day	BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 27	C	CEM
NOx	BAAQMD 9-10-303	Y		Federal emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502 BAAQMD Condition 18372, Part 27	C	CEM
NOx (S937)	BAAQMD Condition 677, Part 1	Y		1430 lbs/stream day or 1089 lbs/calendar day	BAAQMD Condition 677, Part 2	C	CEM
NOx (S934, S935)	BAAQMD Condition 8077, Part B7A	Y		60 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD Condition 8077, Part B4B	C	CEM
O2		N		No limit	BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28	C	CEM
O2 (S934, S935)	None	Y		No limit	BAAQMD Condition 8077, Parts B4B, B4D	C	CEM
O2 (S920, S928 to S933)	None	Y		No limit	BAAQMD Condition 8077, Parts B4C, B4D	C	CEM
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

**Table VII – C.4.2
 Applicable Limits and Compliance Monitoring Requirements**

**S920 - No. 20 Furnace, S926 - No. 26 Furnace, S928 - No. 28 Furnace, S929 - No. 29 Furnace, S930 - No. 30 Furnace,
 S931 - No. 31 Furnace, S932 - No. 32 Furnace, S933 - No. 33 Furnace, S934 - No. 34 Furnace, S935 - No. 35 Furnace,
 S937 - No. 1 Hydrogen Plant Furnace
 NSPS Subpart J by Consent Decree Condition 23562**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-1-305	Y		Prohibition of nuisance	None	N	N/A
VOC S920, S928, S929, S930, S931, S932, S933, S934, S937 Only	BAAQMD Condition 13605, Part 3	Y		99.5% abatement efficiency	BAAQMD Condition 13605, Part 4	P/5 years	Source Tests
VOC S920, S928, S929, S930, S931, S932, S933, S934, S937 Only	BAAQMD Condition 20099, Part 4	Y		98% abatement efficiency	BAAQMD Condition 20099, Part 6	P/5 years	Source Tests
POC S920, S928, S929, S930, S931, S932, S933, S934, S937 Only	BAAQMD Condition 21849, Part 11	Y		0.04 lb POC per gallon loaded at S-1025	BAAQMD Condition 21849, Part 11d	P/5 years	Source Tests

**Table VII – C.4.3
 Applicable Limits and Compliance Monitoring Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit			Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD 9-10-305 BAAQMD Condition 18372, Part 27	N		400 ppmv (dry, 3% O ₂), operating day average			BAAQMD 9-10-502 BAAQMD Condition 18372, Part 34	P/ Semi-annual	Source Test
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf			None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂			None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf			None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂			None	N	N/A
Firing Rate	Title V Permit Table IIA, BAAQMD Condition 16685, Part 1	Y		S-#	MM Btu/ hr	MM Btu/ day	BAAQMD 9-10-502.2	C	Fuel Flowmeter
				919	111	2,664			
				973	110	2,640			
Firing Rate (S919)	BAAQMD Condition 8350, Part B5	Y		972,360 MMBtu/yr			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S919)	BAAQMD Condition 8350, Part B5	Y		111 MMBtu/hr, on a calendar day basis			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Firing Rate (S973)	BAAQMD Condition 8077, Part B7B	Y		110 MMBTU/hr			BAAQMD 9-10-502.2	C	Fuel Flowmeter
Fuel Flow (all)	None	Y		No limit			BAAQMD Condition 8077, Part B4D	C	Fuel flow meter

**Table VII – C.4.3
 Applicable Limits and Compliance Monitoring Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TS (100 psi fuel gas system)	Condition 27604, Part 1	Y		162 ppmv, dry, 3 hour rolling average	BAAQMD Condition 27604, Part 2	C P/W	H2S analyzer on 100 psi fuel gas mix pot Sampling and Testing
NOx	BAAQMD 9-10-308 and Condition 18372 Part 37	N		Compliance with ANCP: 834.4 lbs NOx/day	BAAQMD 9-10-502.1 BAAQMD Condition 8077, Parts B4B, B4D BAAQMD Condition 18372, Part 27	C	CEM
NOx	BAAQMD 9-10-303	Y		Federal emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NOx/MMBTU	BAAQMD 9-10-502 BAAQMD Condition 8077, Part B4B BAAQMD Condition 18372, Part 27	C	CEM
NOx (S919)	BAAQMD Condition 8077, Part B7A	Y		60 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD 9-10-502	C	CEM
NOx (S973)	BAAQMD Condition 8077, Part B7A	Y		40 ppmvd/ 8-hr avg. corrected to 3% O2	BAAQMD 9-10-502 BAAQMD Condition 8077, Part B4B	C	CEM
NOx (S973)	BAAQMD Condition 8077, Part A2A	Y		130.5 lb/rolling 24 hours; limit for S973 SU or SD	BAAQMD Condition 8077, Part B4B	C	CEM

**Table VII – C.4.3
 Applicable Limits and Compliance Monitoring Requirements**

S919 - No. 19 Furnace, S973 - No. 55 Furnace

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx (S973)	BAAQMD Condition 8077, Part A2A	Y		2,628 lb/consecutive 12-months; limit for S973 SU or SD	BAAQMD Condition 8077, Part B4B	C	CEM
Unabated Operation (S973)	BAAQMD Condition 8077, Part A2A	Y		72 hours per SU or SD	BAAQMD Condition 8077, Part B5A	P/E	Ammonia Injection Records
Unabated Operation (S973)	BAAQMD Condition 8077, Part A2A	Y		432 hours/ consecutive 12-months	BAAQMD Condition 8077, Part B5A	P/E	Ammonia Injection Records
O2	None	N		No limit	BAAQMD 9-10-502.1 BAAQMD Condition 18372, Part 28	C	CEM
O2 (S973)	None	Y		No limit	BAAQMD Condition 8077, Parts B4B, B4D	C	CEM
O2 (S919)	None	Y		No limit	BAAQMD Condition 8077, Part B4D	C	CEM
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – C.4.4
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – C.4.5
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – C.4.6
 Applicable Limits and Compliance Monitoring Requirements**

**S1106 - No. 72 Furnace, No. 4 HDS Feed Reactor Heater
 Natural Gas Fired, Not Subject to Regulation 9, Rule 10**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NH3 slip	BAAQMD Condition 19199 Part H10	Y		20 ppmv (dry @ 3% O ₂) avg. over any 3-hr period	None	N	N/A
NOx	BAAQMD Condition 19199 Part H4	Y		10 ppmv (dry, 3% O ₂)	BAAQMD Condition 19199 Part H11	C	CEM
O ₂ (S1106)	No limit	Y		No limit	BAAQMD Condition 19199 Part H11	C	CEM
CO	BAAQMD Condition 19199 Part H5	Y		50 ppmv (dry, 3% O ₂), three-hour average	BAAQMD Condition 19199 Part H12	P/A	Source test
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – C.4.6
 Applicable Limits and Compliance Monitoring Requirements**

**S1106 - No. 72 Furnace, No. 4 HDS Feed Reactor Heater
 Natural Gas Fired, Not Subject to Regulation 9, Rule 10**

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 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
H2S (in fuel gas)	40 CFR 60.104(a)(1) 60.105(e)(3) (ii)	Y		160 ppmv, dry, 3 hour rolling average	40 CFR 60.105(a)(4)	C	H2S analyzer on fuel gas
Fuel Flow	BAAQMD Condition 19199 Part H0	Y		30 MMBtu/hr averaged over each calendar day	BAAQMD Condition 19199 Part H2	C	Fuel flow meter
Fuel Flow	BAAQMD Condition 19199 Part H3	Y		225.257 MMscf/yr	BAAQMD Condition 19199 Part H2	C	Fuel flow meter
PM10	BAAQMD Condition 19199 Part H7	Y		0.856 ton/ rolling consecutive 12-month period	None	N	N/A
POC	BAAQMD Condition 19199 Part H6	Y		0.619 ton/rolling consecutive 12-month period	None	N	N/A
SO2	BAAQMD Condition 19199, Part H8	Y		0.068 ton/ rolling consecutive 12-month period	None	N	N/A
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A

Table VII – C.4.6
Applicable Limits and Compliance Monitoring Requirements

S1106 - No. 72 Furnace, No. 4 HDS Feed Reactor Heater
Natural Gas Fired, Not Subject to Regulation 9, Rule 10

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A

Table VII – C.4.7
Applicable Limits and Compliance Monitoring Requirements
Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78 Abated by A-1511)
S1512 (F79 Abated by A-1512)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	NA
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	NA
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
TRS	Condition 23129, Part 11	Y		100 ppmv TRS in fuel gas (24 hour average)	Condition 23129, Part 19	C	CEM
TRS	Condition 23129, Part 11	Y		100 ppmv TRS in fuel gas (24 hour average)	Condition 23129, Part 26	P/E	Initial source tests (fuel gas firing only)
TRS	Condition 23129, Part 11	Y		35 ppmv TRS in fuel gas (365 day average)	Condition 23129, Part 19	C	CEM
Total Sulfur	Condition 23129, Parts 15, 16	Y		1.0 gr/100 scf in natural gas	Condition 23129, Parts 15, 16	None	Records
SAM	Condition 23129, Part 17 BAAQMD 2-2-306	Y		38 lb/day (annual average)	Condition 23129, Part 26	P/E	Initial source tests (fuel gas firing only)

Table VII – C.4.7
Applicable Limits and Compliance Monitoring Requirements
Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
S1511 (F78 Abated by A-1511)
S1512 (F79 Abated by A-1512)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	Condition #23129, Part 18	Y		230 mg/dscm (0.10 gr/dscf) or 160 ppmvd (3-hour rolling average) in fuel gas	Condition #23129, Part 19	C	CEM
NOx	40 CFR 60.42b(l)(2)	Y		86 ng/J (0.20 lb/MMBtu) (30-day average)	40 CFR 60.46b(e) 60.48b(b)(1)	C	CEM
NOx	BAAQMD 10-4	Y		86 ng/J (0.20 lb/MMBtu) (24-hr average)	40 CFR 60.46b(e) 60.48b(b)(1)	C	CEM
NOx	Condition 23129, Part 12	Y		7 ppmvd NOx (calculated as NO ₂) @ 3% O ₂ (3-hour average)	Condition 23129, Part 21	C	CEM
NOx	Condition 23129, Part 12	Y		7 ppmvd NOx (calculated as NO ₂) @ 3% O ₂ (3-hour average)	Condition 23129, Part 26	P/E	Initial source tests
NOx	Condition 23129, Part 12a	Y		50 ppmvd NOx (calculated as NO ₂) @ 3% O ₂ (3-hour average) During Startup, Shutdown, Malfunctions not to exceed 144 hours in consecutive 12 months	Condition 23129, Part 21	C	CEM
CO	Condition 23129, Part 12	Y		35 ppmvd CO @ 3% O ₂ (3-hour average)	Condition 23129, Part 22	C	CEM
CO	Condition 23129, Part 12	Y		35 ppmvd CO @ 3% O ₂ (3-hour average)	Condition 23129, Part 26	P/E	Initial source tests

**Table VII – C.4.7
 Applicable Limits and Compliance Monitoring Requirements
 Hot Oil Heaters Abated by Selective Catalytic Reduction Systems
 S1511 (F78 Abated by A-1511)
 S1512 (F79 Abated by A-1512)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	Condition 23129, Part 12a	Y		400 ppmvd CO @ 3% O ₂ (3-hour average) During Startup, Shutdown, Malfunctions not to exceed 144 hours in consecutive 12 months	Condition 23129, Part 22	C	CEM
CO	Condition 23129, Part 12b	Y		50 ppmvd CO @ 3% O ₂ (3-hour average) For 100 days per consecutive 12 month period	Condition 23129, Part 22	C	CEM
O ₂	None	Y		No limit	Condition 23129, Part 23 60.48b(b)(1)	C	CEM
NH ₃ slip	Condition 23129, Part 13	Y		10 ppmvd @ 3% O ₂ (3 hour average)	Condition 23129, Part 26	P/E	Initial Source Tests
Throughput	Condition 23129, Part 14	Y		2,014,800 MMBtu/year	Condition 23129, Parts 24 & 25	C	Fuel flow meter and calorimeter

**Table VII – C.4.8
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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Section C.5 Combustion – Gas Turbines

**Table VII – C.5.1
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
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Section D Liquid Loading

**Table VII – D.1
 Applicable Limits and Compliance Monitoring Requirements**

**Facility B2759
 S55 - Exempt Amorco Wharf Terminal
 Renewable Diesel Loading Only**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 22455, Part 8	Y		9,855,000 bbls/consecutive 12-month period 124,800 bbls/calendar day	BAAQMD Condition 22455, Part 12	P/ Vessel Loading	Records
True Vapor Pressure (TVP)	BAAQMD Condition 22455, Part 13	Y		TVP ≤ 0.012 psia/ consecutive 12-month period	BAAQMD Condition 22455, Part 12	P/ Vessel Loading	Records
POC	BAAQMD Condition 22455, Part 14	Y		5 tons POC/consecutive 12-month period	BAAQMD Condition 22455, Part 14	P / Vessel unloading	Records

**Table VII – D.2
Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – D.3
Applicable Limits and Compliance Monitoring Requirements**

S101 - Truck Unloading Rack – Tract 2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector

**Table VII – D.4
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – D.5
 Applicable Limits and Compliance Monitoring Requirements**

**S115 - Bulk Plant Truck/Rail
 Caustic Waste 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
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-302	Y		44 gr/m3 (0.35 lb/1000 gal loaded) [TVP > 1.5 psia]	BAAQMD 8-6-501.2	P/M	Records
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
Throughput	BAAQMD Condition 27587, Part 1	Y		12,871 bbl/consecutive 24-hour period 84,621 bbl/consecutive 12 month period	BAAQMD Condition 27587, Part 17	P/D	Records

Table VII – D.6
Applicable Limits and Compliance Monitoring Requirements

S126, S127 - Exempt LPG Loading Racks

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO MONITORING REQUIRED							

**Table VII – D.7
 Applicable Limits and Compliance Monitoring Requirements**

**S1025 - Bulk Plant Truck Bottom Loading Rack;
 Gasoline, Diesel and Renewable Diesel
 Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Applicable to Non-Gasoline Loading Only							
POC	BAAQMD 8-6-110	Y		Exemption: organic liquids with TVP < 0.5 psia	BAAQMD 8-6-501.1 8-6-603 8-6-604	P/E	Records, MOP Method III.28
POC	BAAQMD 8-6-301	Y		21 gr/m3 (0.17 lb/1000 gal loaded)	BAAQMD 8-6-501.2	P/M	Records
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
Applicable to Gasoline Loading Only							
Vapor Leak TOC	BAAQMD Condition 26033, Part 4	Y		100 ppm of TOC expressed as methane	BAAQMD Condition 26033, Part 3	P/Q	Portable Hydrocarbon Detector
Liquid Leaks	BAAQMD 8-33-205 8-33-304.8	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline cargo tanks)	BAAQMD 8-33-116	P/A	Source Test
Liquid Leaks	BAAQMD 8-33-205 8-33-309.6	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline bulk terminal liquid fill & vapor return connectors)	None	N	N/A
Liquid Leaks	BAAQMD 8-33-205 8-33-309.6	N		3 drops/minute; or 10 mL/ disconnect, avg. over three consecutive disconnects (gasoline bulk terminal liquid fill & vapor return connectors)	BAAQMD 8-33-309.8	P/D	P/V valves, liquid fill hose & vapor hose connector seal physical inspection
POC	BAAQMD Condition 21849, Part 11	Y		9.6 g/m3 (0.08 lb/1000 gal) organic liquid loaded	BAAQMD 8-33-116 BAAQMD Condition 21849, Part 11d	P/every five years	Source Test

**Table VII – D.7
 Applicable Limits and Compliance Monitoring Requirements**

**S1025 - Bulk Plant Truck Bottom Loading Rack;
 Gasoline, Diesel and Renewable Diesel
 Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-33-301.2	N		0.04 lb/1000 gal organic liquid loaded	BAAQMD Condition # 21849, Part 11d	P/every five years	Source Test
POC	BAAQMD 8-33-301.2	N		0.04 lb/1000 gal organic liquid loaded	BAAQMD 8-33-309.13.2	C	POC parametric monitoring
POC	SIP 8-33-301	Y		9.6 g/m3 (0.08 lb/1000 gal) organic liquid loaded	BAAQMD Condition 21849, Part 11d	P/every five years prior to Title V Permit Renewal	Source Test
POC	BAAQMD Condition 21849, Part 11	Y		9.6 g/m3 (0.04 lb/1000 gal) gasoline material loaded	BAAQMD Condition 21849, Part 11c	C	Pressure indicator and switch at V-61 knockout pot
Through-put	BAAQMD Condition 21849, Part 9	Y		64,457 bbl/day and 18,615K bbl/yr	BAAQMD Condition 21849, Part 12c	P/M	Records
POC	BAAQMD 8-33-217 8-33-304.6	N		Pressure decay & vapor leak standards of CARB CP-204 (gasoline cargo tank)	None	N	N/A
POC	BAAQMD 8-33-216 8-33-304.7	N		100% of LEL (gasoline cargo tank liquid fill & vapor return connectors)	None	N	N/A
POC	BAAQMD 8-33-216 8-33-309.5	N		3,000 ppm; or 6% of LEL (gasoline bulk terminal)	BAAQMD 8-33-309.8	P/W	Hydrocarbon analyzer
POC	BAAQMD 8-33-216 8-33-309.5	N		3,000 ppm; or 6% of LEL (gasoline bulk terminal)	BAAQMD 8-33-116	P/A	Source Test

**Table VII – D.7
 Applicable Limits and Compliance Monitoring Requirements**

**S1025 - Bulk Plant Truck Bottom Loading Rack;
 Gasoline, Diesel and Renewable Diesel
 Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H ₂ O during product loading (at cargo tank/vapor hose interface)	BAAQMD Condition # 21849, Part 11c	C	Pressure indicator and switch at V-61 knockout pot
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H ₂ O during product loading (at cargo tank/vapor hose interface)	BAAQMD 8-33-309.10	C	Backpressure monitor
Pressure	BAAQMD 8-33-309.2	N		18.0 inches of H ₂ O during product loading (at cargo tank/vapor hose interface)	BAAQMD 8-33-309.10	P/A	Backpressure monitor correlation test
Requirements for Loading Cargo Trucks							
Vapor Tight Cargo Trucks	40 CFR 63.422(a) 60.502(e)(1)(e)(4)	Y		Procedures for loading gasoline cargo trucks	40 CFR 63.422(a) 60.502(e)(1) – (e)(4)	P/E	Records
Vapor Tight Cargo Trucks	40 CFR 63.422(a) 60.502(e)(5) 63.422(c)(2)	Y		Have a procedure in place to ensure that non-vapor tight trucks are not reloaded until new vapor tight documentation is received	40 CFR 63.422(a) 60.502(e)(5) 63.422(c)(2)	P/E	Records
Vapor Collection	40 CFR 63.422(a) 60.502(f) 60.502(g)	Y		Ensure truck vapor collection equipment is: Compatible with terminal Connected to terminal	None	N	NA
Pressure	40 CFR 63.422(a) 60.502(h)	Y		Maximum cargo tank pressure during loading: 450 mm H ₂ O	40 CFR 63.422(a) 60.503(d)	P/E	Record maximum pressure each loading event
POC	40 CFR 63.422(b)	Y		10 mg TOC/L gasoline loaded	40 CFR 63.427(a)	C	CEM

**Table VII – D.8
Applicable Limits and Compliance Monitoring Requirements**

**S1504 – Ethanol Unloading Rack
S1528 - Alkylate Railcar Unloading Rack**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-306	Y		Vapor tight, leak free equipment	BAAQMD 8-6-502	N	Portable Hydrocarbon Detector
Through-put (S1504)	BAAQMD Condition 21849, Part 13	Y		S1504 ≤ 1200K bbl/12 consecutive months	BAAQMD Condition 21849, Part 15b	P/M	Records
Through-put (S1528)		Y		S1528 - No Limit	BAAQMD Condition 13605, Part 5a	P/M	Records

**Table VII – D.9
 Applicable Limits and Compliance Monitoring Requirements**

S1525 - Non-Retail Service Station 1 Nozzle

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 24172	Y		440,000 gallons gasoline/ consecutive 12-month period	BAAQMD 8-7-503.1	P/A	Records
VOC	BAAQMD 8-7-301.2	Y		Phase I vapor recovery efficiency standards per CARB certification	BAAQMD 8-7-407 8-7-603	N	Source test
VOC	BAAQMD 8-7-301.6	Y		Phase I leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 1	P/A	Source test
VOC	BAAQMD 8-7-301.6	Y		Phase I leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 3	P/ Initial Start Up	Source Test
VOC	BAAQMD 8-7-302.5	Y		Phase II leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 1	P/A	Source test
VOC	BAAQMD 8-7-302.5	Y		Phase II leak-free, vapor tight	BAAQMD 8-7-301.13 8-7-407 8-7-602 BAAQMD Condition 16516, Part 3	P/ Initial Start Up	Source Test
VOC	BAAQMD 8-7-302.8	Y		Phase II Liquid Removal \geq 5 ml/gallon dispensed (at 5 gpm or per CARB EO)	BAAQMD 8-7-407 8-7-605	N	Source test

**Table VII – D.9
 Applicable Limits and Compliance Monitoring Requirements**

S1525 - Non-Retail Service Station 1 Nozzle

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 8-7-302.12	Y		Phase II Liquid Retain ≤ 100 ml/1000 gallons dispensed per nozzle or as specified in CARB CP-201	BAAQMD 8-7-302.12 8-7-407	N	Source test
VOC	BAAQMD 8-7-302.13	Y		Phase II Spitting ≤ 1 ml/1000 gallons dispensed per nozzle or as specified in CARB CP-201	BAAQMD 8-7-302.13 8-7-407	N	Source test
VOC	BAAQMD 8-7-313.1	Y		Phase II Fugitives ≤ 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR
VOC	BAAQMD 8-7-313.2	Y		Phase II Spillage ≤ 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR
VOC	BAAQMD 8-7-313.3	Y		Phase II Liquid Retain + Spitting < 0.42 lb/1000 gallon	None	N	Use CARB certified Phase II VR

**Table VII – D.10
Applicable Limits and Compliance Monitoring Requirements**

**S613 - Vapor Storage Tank
Vented to A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	BAAQMD 8-33-308.1	N		3,000 ppm as C1; or 6% of LEL (vapor storage tank)	BAAQMD 8-33-308.2	P/W	Hydrocarbon analyzer
TOC	SIP 8-33-308	Y		3,000 ppm as C1; or 15 lb/day (vapor diaphragm requirements)	None	N	N/A

**Table VII – D.11
 Applicable Limits and Compliance Monitoring Requirements**

**S1560 - Avon Wharf Berth 1A
 With A1560 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP 8-44-301.1 8-44-301.2	Y		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight	SIP 8-44-501.1 8-44-502	P/E Each loading event	Records
POC	SIP 8-44-304.1	Y		Liquid leaks < 4 drops/minute Gas tight ≤ 10,000 ppm (methane)	None	N	N/A
POC	BAAQMD 8-44-301 8-44-304.1	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Loading)	BAAQMD 8-44-501.1	P/E Each loading event	Records
POC	BAAQMD 8-44-304.2	N		Use emission control equipment for control of loading emissions	None	N	N/A
POC	BAAQMD 8-44-304.1 8-44-304.2	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Ballasting Option 1)	BAAQMD 8-44-501.2	P/E Each ballasting event	Records
POC	BAAQMD 8-44-304.1 8-44-304.2	N		5.7 g/m3 (2 lbs/1000 bbls loaded) or Reduce by 95% by weight (Venting Option 1)	BAAQMD 8-44-501.3	P/E Each venting event	Records
POC	BAAQMD Condition 26406, Part 4	Y		20 tons/year from product loading operations	BAAQMD Condition 26406, Part 4 and Part 11	P/ Vessel loading	Records and calculations
TOC	BAAQMD Condition 26406, Part 8	Y		Vapor Recovery System Pressure relief valve leak ≤ 500 ppm	BAAQMD Condition 26406, Part 8	P/6 months	Method 21 Inspection

**Table VII – D.11
 Applicable Limits and Compliance Monitoring Requirements**

**S1560 - Avon Wharf Berth 1A
 With A1560 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAPS	40 CFR 63.560(a)(2)	Y		< 10 and 25 tons [defined in 40 CFR 63.561]	40 CFR 63.560(a)(3) 63.565(l) 63.567(j)(4)	P/A	Records
Through-put (Loading and Unloading)	BAAQMD Condition 26406, Part 1	Y		30,000,000 bbls /consecutive 12-month period	BAAQMD Condition 26406, Part 3 and Part 11	P/ Vessel loading and unloading	Records
Through-put (Loading Renewable Naphtha)	BAAQMD Condition 26406, Part 13	Y		55,200 bbls/calendar day 365,000 bbls /consecutive 12-month period	BAAQMD Condition 26406, Part 11	P/ Vessel loading	Records
Cargo Carrier NOx	BAAQMD Condition 26406, Part 2	Y		188.825 tons/year	BAAQMD Condition 26406, Part 3 and Part 11	P/ Vessel loading and unloading	Throughput Records
Cargo Carrier CO	BAAQMD Condition 26406, Part 2	Y		34.425 tons/year	BAAQMD Condition 26406, Part 3 and Part 11	P/ Vessel loading and unloading	Throughput Records
Cargo Carrier POC	BAAQMD Condition 26406, Part 2	Y		10.743 tons/year	BAAQMD Condition 26406, Part 3 and Part 11	P/ Vessel loading and unloading	Throughput Records
Cargo Carrier PM10	BAAQMD Condition 26406, Part 2	Y		4.157 tons/year	BAAQMD Condition 26406, Part 3 and Part 11	P/ Vessel loading and unloading	Throughput Records

**Table VII – D.11
 Applicable Limits and Compliance Monitoring Requirements**

**S1560 - Avon Wharf Berth 1A
 With A1560 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Cargo Carrier SO2	BAAQMD Condition 26406, Part 2	Y		9.372 tons/year	BAAQMD Condition 26406, Part 3 and Part 11	P/ Vessel loading and unloading	Throughput Records

Section E Solids Handling

**Table VII – E.1
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – E.2
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – E.3
 Applicable Limits and Compliance Monitoring Requirements**

S821 - Fluid Coke Storage Pile

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection

Table VII – E.3
Applicable Limits and Compliance Monitoring Requirements

S821 - Fluid Coke Storage Pile

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	SIP 6-310	Y		0.15 grain/dscf	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	BAAQMD 6-1-311.1	N		TSP < those on Table 6-1-311.1 of Regulation 6-1-311	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	BAAQMD Condition 19528, Part 14	P/D	Visual Inspection

**Table VII – E.4
 Applicable Limits and Compliance Monitoring Requirements**

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit) Cooling Tower
S976 - No. 5 Gas Plant Cooling Tower
S978 - Foul Water Stripper Cooling Tower
**S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit
 (formerly Hydrocracker) Cooling Tower**
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD 6-1-310.2	N		Process weight < those on Table 6-1-310.2 of Regulation 6-1-310	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311.2	N		Process weight < those on Table 6-1-311.2 of Regulation 6-1-311	None	N	N/A
FP	SIP 6-311	Y		Process weight < those on Table 1 of Regulation 6-311	None	N	N/A
VOC	BAAQMD 11-10-304.1	N		Leak action level not to exceed 84 ppb (42 ppmw new or modified), weight in the cooling water	BAAQMD 11-10-603 11-10-604	P/W [P/Bi-monthly if no leaks in 6 consecutive months]	Sample analysis

Table VII – E.4
Applicable Limits and Compliance Monitoring Requirements

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit) Cooling Tower
S976 - No. 5 Gas Plant Cooling Tower
S978 - Foul Water Stripper Cooling Tower
S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit
(formerly Hydrocracker) Cooling Tower
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	40 CFR 63.2490(d)(1)(iv)	Y		Leak action level: Total strippable VOC (as CH4) < 6.2 ppmv or ≤ 0.18 kg/hr (for heat exchange systems ≤10,000 gal/min only)	40 CFR 63.654(c)(3)	P/Q [P/M for first 6 months upon SU] [P/M when a leak is detected until leak has been repaired]	Sample analysis (Modified El Paso Method)
POC (S982)	BAAQMD Condition 19199, Part E5	Y		100 ppm (gasoline range organics) 100 ppm (diesel range organics)	BAAQMD Condition 19199, Part E6	P/ Weekly	Lab analysis EPA Method 8015
Circulation rate (S846)	BAAQMD Condition 27587, Part 7	Y		6,500 gallons/min	BAAQMD Condition 27587, Part 16	P/M	Flow Meter
Circulation rate (S976)	BAAQMD Condition 27587, Part 8	Y		64,500 gallons/min	BAAQMD Condition 27587, Part 16	C	Flow Meter
Circulation rate (S978)	BAAQMD Condition 27587, Part 9	Y		5,200 gallons/min	BAAQMD Condition 27587, Part 16	P/M	Flow Meter
Circulation rate (S980)	BAAQMD Condition 27587, Part 10	Y		14,028 gallons/min	BAAQMD Condition 27587, Part 16	P/M	Flow Meter
Circulation rate (S982)	BAAQMD Condition 19199, Part E1	Y		1,080,000 gallons/hr or 18,000 gallons/min	None	N	N/A

**Table VII – E.4
 Applicable Limits and Compliance Monitoring Requirements**

S846 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit) Cooling Tower
S976 - No. 5 Gas Plant Cooling Tower
S978 - Foul Water Stripper Cooling Tower
**S980 - Diesel HDO Unit No. 1 and Diesel Isomerization Unit
 (formerly Hydrocracker) Cooling Tower**
S982 - Diesel HDO Unit No. 2 (formerly No. 2 HDS) Cooling Tower
S985 - No. 1 Gas Plant Cooling Tower

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Circulation rate (S985)	BAAQMD Condition 27587, Part 11	Y		5,500 gallons/min	BAAQMD Condition 27587, Part 16	P/M	Flow Meter
TDS	None			None	None	N	N/A
TDS (S982)	BAAQMD Condition 19199, Part E3	Y		5000 mg/L	BAAQMD Condition 19199, Part E4	P/ Quarterly	Lab analysis
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
Particulate Matter	BAAQMD 6-1-311.1	N		Process weight < those on Table 6-1-311.1 of Regulation 6-1-311	None	N	N/A
Particulate Matter	SIP 6-311	Y		Process weight < those on Table 1 of Regulation 6-311	None	N	N/A

**Table VII – E.5
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – E.6
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – E.7
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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Section F Tanks

Refer to Table IV-F.1 Tanks – Source Listing and Applicable Permit Conditions

Refer to Table IV-F.2 Tanks – Groups and Group Descriptions

**Table VII – F.3
 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit					Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequenc y (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502	
BAAQMD Regulation 8, Rule 5 Organic Compounds - Storage of Organic Liquids																									
SIP Regulation 8, Rule 5 Organic Compounds - Storage of Organic Liquids																									
TVP	BAAQMD 8-5-117 SIP 8-5-117	Y		Exempt Tank true vapor pressure not greater than 0.5 psia.	BAAQMD Condition 19528, Parts 12, 12.1	P/E upon change of service	Look up table or sample analysis; Records			X															
TVP	BAAQMD 8-5-117 SIP 8-5-117 8-5-301 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		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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											X	X	X	X	X	X	X	
VOC	SIP 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	SIP 8-5-403	P/SA	visual inspection											X	X	X	X	X	X	X	
VOC	BAAQMD 8-5-303.2	N		Pressure vacuum valve sealing mechanism	BAAQMD 8-5-403 8-5-403.1	P/SA	Method 21 portable hydrocarbon detector											X	X	X	X	X	X	X	

**Table VII – F.3
 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequenc y (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
				must be gas-tight: < 500 ppm 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 8-5-303.2	Y		Pressure relief valve gas tight (< 500 psig)	SIP 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector											X	X	X	X		X	X
VOC	BAAQMD 8-5-304.6.1	N		EFR leaking pontoons gas tight requirements	BAAQMD 8-5-412	P/Q until repaired	Method 21 portable hydrocarbon detector				X	X	X	X										
VOC	BAAQMD 8-5-305 8-5-321.1 8-5-322.1 SIP 8-5-305	Y		IFR visual inspection of outer most seal	BAAQMD 8-5-402.2 SIP 8-5-402.2	P/SA	Visual inspection								X	X	X							
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	P/A	Source test												X					
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	SIP 8-5-603.1	P/A	Source test												X					

Table VII – F.3
Applicable Limits and Compliance Monitoring Requirements

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
VOC	BAAQMD 8-5-306.1	N		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – Vented to FG													A B D	X			
VOC	SIP 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD 8-5-502	N	No monitoring required – Vented to FG													A B D	X			
VOC	BAAQMD 8-5-307.3	N		Pressure relief valve gas tight (< 500 psig)	BAAQMD 8-5-403 8-5-403.2 8-5-605	P/SA	Method 21 portable hydrocarbon detector											X	X	X	X		X	X
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		EFR floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2 SIP 8-5-401.2	P/SA	Measurement and visual inspection				X	X	X	X										
VOC	BAAQMD 8-5-320 SIP 8-5-320	Y		IFR fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection								X	X	X							
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		EFR primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection				X	X	X	X										
VOC	BAAQMD 8-5-321 SIP 8-5-321	Y		IFR 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								X	X	X							

**Table VII – F.3
 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																					
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502	
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		EFR secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1 SIP 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection				X	X	X	X											
VOC	BAAQMD 8-5-322 SIP 8-5-322	Y		IFR 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								X	X	X								
VOC	BAAQMD 8-5-320 8-5-321 8-5-322 SIP 8-5-320 8-5-321	N		EFR floating roof fitting, primary and secondary seal standards	BAAQMD 8-5-401.1 8-5-401.2 8-5-411.3 (optional)	P/Q (optional)	Seal and fitting inspection; (enhanced monitoring)				X	X	X	X											
VOC	BAAQMD 8-5-328.1	N		Tanks > 75 m3 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				X	X	X	X	X	X	X	X		X	X		X	X	
VOC	SIP 8-5-328.1	Y		Tanks > 75 m3 concentration of < 10,000 ppm as methane after degassing	SIP 8-5-503	P/each time emptied & degassed	Portable hydrocarbon detector				X	X	X	X	X	X	X	X		X	X		X	X	

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																						
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502		
VOC	SIP 8-5-328.1	Y		Tanks > 75 m3 tank degassing control by liquid balancing in which the resulting organic liquid has a TVP is less than 0.5 psia	BAAQMD 8-5-501	P/E	Records				X	X	X	X	X	X	X	X			X	X		X	X	
VOC	BAAQMD 8-5-328.1 SIP 8-5-328.1	Y		Tank degassing control device standards; includes 90% efficiency requirement	BAAQMD 8-5-502 and 8-5-603.2 SIP 8-5-502	P/A	Source test				X	X	X	X	X	X	X	X			X	X		X	X	
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 SIP 8-5-404 SIP 8-5-405	P/ after each tank inspection and source test	Certification report				X	X	X	X	X	X	X	X	X	X	X	X		X	X	
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	P/ for each tank seal replacement	Records (retain 10 years)				X	X	X	X	X	X	X									
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	Look-up table or sample analysis				X	X	X	X	X	X	X	X	X	X	X		X	X		
NSPS 40 CFR 60 Subpart Kb Volatile Organic Liquid Storage Vessels																										
VOC	60.112b (a)(3)(i)	Y		Fixed roof closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	N	Method 21 portable hydrocarbon detector																			

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
VOC	60.112b(a)(3)(ii)	Y		Fixed roof control device standards; includes 95% efficiency requirement	60.113b(c)(1) 60.113b(c)(2)	N	Operating Plan														D	C		
VOC	60.116b(c)	Y		Record of liquid stored and true vapor pressure	60.116b(e)	P/E upon change of service	Records														D	C		
VOC	60.112b(a)(1)	Y		IFR deck fitting closure standards	60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection									X	B							
VOC	61.351(a)(1) 60.112b(a)(1)	Y		IFR deck fitting closure standards	61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection									X								
VOC	60.113b(a)(1) 60.113b(a)(4)	Y		IFR primary rim-seal standards; no holes or tears	60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection									X	B							
VOC	61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Y		IFR primary rim-seal standards; no holes or tears	61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 years	Visual inspection									X								

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																					
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502	
VOC	60.113b (a)(1) 60.113b (a)(4)	Y		IFR secondary rim-seal standards; no holes or tears	60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	Visual inspection										B								
VOC	61.351(a)(1) 60.113b (a)(1) 60.113b (a)(4)	Y		IFR secondary rim-seal standards; no holes or tears	61.351(a)(1) 60.113b(a)(1) 60.113b(a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 years	Visual inspection									X									
VOC	60.113b (a)(2)	Y		IFR internal visual inspection from viewports of fixed roof	60.113b(a)(2)	P/A	Visual inspection									X	B								
VOC	61.351(a)(1) 60.113b (a)(2)	Y		IFR internal visual inspection from viewports of fixed roof	61.351(a)(1), 60.113b(a)(2)	P/A	Visual inspection									X									
VOC	60.112b (a)(2)(ii)	Y		EFR deck fitting closure standards; includes gasketed covers	60.112b(b)(6)	Each time emptied & degassed	Visual inspection				X	C D	C	C											
VOC	61.351(a)(2) 60.112b (a)(2)(ii)	Y		EFR deck fitting closure standards; includes gasketed covers	61.351(a)(2), 60.112b(b)(6)	Each time emptied & degassed	Visual inspection						D												
VOC	60.113b (b)(4)(i)	Y		EFR primary rim-seal standards; includes gap criteria	60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/ at 5 year intervals	Measurement and visual inspection				X	C D	C	C											

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																					
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequenc y (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502	
VOC	61.351(a)(2) 60.113b(b)(4)(i)	Y		EFR primary rim-seal standards; includes gap criteria	61.351(a)(2), 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/ at 5 year intervals	Measurement and visual inspection						D												
VOC	60.113b(b)(4)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/A	Measurement and visual inspection				X	C D	C	C											
VOC	61.351(a)(2) 60.113b(b)(4)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	61.351(a)(2), 60.113b(b)(1) 60.113b(b)(2) 60.113b(b)(3)	P/A	Measurement and visual inspection						D												
VOC	60.116b(c)	Y		Record of liquid stored and true vapor pressure	60.116b(c)	P/E upon change of service	Records				X	C D	C D	C		X	B			D	C				
VOC		Y		EFR seal inspection records for report in 60.115b(b)(2)	60.115b(b)(3)	P/A For each gap measurement	Records				X	C D	C D	C											
VOC		Y		EFR inspection report for non-compliant seals	60.115b(b)(4)	P/A Within 30 days of seal inspection	Report				X	C D	C D	C											
40 CFR 61 Subpart FF – Benzene Waste Operations NESHAP																									
VOC	61.343(a)(1)(i)(A)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	61.343(a)(1)(i)(A)	P/A	Method 21 portable hydrocarbon detector											X		B C	B C				

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																					
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502	
VOC	61.343(a)(1)(i)(B)	Y		Tank openings maintained in closed and sealed position	61.343(c)	P/Q	Visual inspection											X		B C	B C				
VOC	61.343(d)	Y		Tank broken seals & gaskets repaired within 45 days	61.356(g)	P/Q	Reports												X		B C				
VOC	61.349(a)(1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	61.349(a)(1)(i)	P/A	Method 21 portable hydrocarbon detector													B	B C				
VOC	61.349(a)(1)(ii)(B)	Y		CVS with bypass line car-seal closed	61.354(f)(1)	P/M	Visual inspection											X		B	B C				
VOC	61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	61.340(d)	N	Exempt from control standards – vented to fuel gas													B	B C				
VOC	61.349(a)(2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	61.349(h) 61.354(d)	P/D	VOC analyzer																		
VOC	61.349(f)	Y		CVS evidence of visual defects	61.349(f)	P/Q	Visual inspection											X		B	B C				
40 CFR 63 Subpart R Gasoline Storage Tanks																									
HAP	63.423(a)	Y		Meet the Control Requirements of 60.112b	63.427(c)	P/Various	Meet the Monitoring Requirements of 60.116b							X				X							
40 CFR 63 Subpart WW Volatile Organic Liquid Storage Tanks – Incorporated by Reference by 40 CFR Part 63 Subparts EEEE and FFFF																									

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

		Limit			Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequenc y (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502	
HAP	63.1063 (a)(1)(i)	Y		IFR rim-seal standards; includes no gaps visible from the tank top, no liquid on the floating roof or other obvious defects	63.1063(c)(1)(i)(A) 63.1063(d)(2)	P/A	Visual inspection																		
HAP	63.1063 (a)(1)(i)	Y		IFR primary and secondary rim-seal standards; no holes or tears	63.1063(c)(1)(i)(B) 63.1063(d)(1)	P/ each time emptied & degassed, at least every 10 yr	Visual inspection										X								
HAP	63.1063 (a)(1)(ii)	Y		EFR primary rim-seal standards; includes gap criteria	63.1063(c)(2)(ii) 63.1063(d)(3)	P/ at 5 year intervals	Measurement and visual inspection			C		X	X												
HAP	63.1063 (a)(1)(ii)	Y		EFR secondary rim-seal standards; includes gap criteria	63.1063(c)(2)(ii) 63.1063(d)(3)	P/A	Measurement and visual inspection			C		X	X												
HAP	63.1063 (a)(2)	Y		Rim-seal standards, deck fitting standards, operational requirements, inspection and repair requirements	63.1063(c)(1)(i)(B) 63.1063(c)(2)(iii) 63.1063(d)(2)	P/A or periodic each time emptied & degassed, at least every 10 years	Visual inspection			C		X	X		X										
HAP	63.2390(a) 63.2525(a)	Y		Recordkeeping	63.1065(a)	P/E, Tank dimensions, capacity, and stored liquids	Records			C		X	X		X										

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 Applicable Limits and Compliance Monitoring Requirements**

Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																							
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502			
HAP	63.2390(a) 63.2525(a)	Y		Recordkeeping	63.1065(b)	P/ Tank inspection records	Records			C		X	X		X												
HAP	63.2390(a) 63.2525(a)	Y		Recordkeeping	63.1065(c)	P/ Floating roof landing and refloating events	Records			C		X	X		X												
HAP	63.2390(a) 63.2525(a)	Y		Recordkeeping	63.1065(d)	P/ Delay of repair extensions	Records			C		X	X		X												
40 CFR 63 Subpart EEEE NESHP for Organic Liquids Distribution (MACT)																											
HAP	63.2343(a) 63.2343(b)	Y		Retain records of any tanks not requiring control under Subpart EEEE	63.2390(a)	P/E	Records																				
HAP	63.2406	Y		Retain weight percent total organic HAP in stored liquids	63.2390(b)	P/E	Records																				
HAP	63.2346(a)(6)	Y		Control emissions from tank cleaning and degassing until LEL ≤ 10%	63.2346(a)(6)	P/ each time emptied & degassed	Monitor LEL using process instrument or portable device							X													
40 CFR 63 Subpart FFFF NESHP for Miscellaneous Organic Chemical Manufacturing (MACT)																											
HAP	63.2470(f)	Y		Control emissions from tank cleaning and degassing until LEL ≤ 10%	63.2470(f)	P/ each time emptied & degassed	Monitor LEL using process instrument or portable device							X													
BAAQMD Permit Conditions																											

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Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
POC	BAAQMD Condition 13605 Part 2	Y		POC emissions shall not exceed 1922.79 pounds per year	BAAQMD Condition 13605 Part 5	P/I and upon change of service	Calculate	S323																
TVP	BAAQMD Condition 13605 Part 2	Y		True Vapor Pressure shall not exceed 7.6 psia	BAAQMD Condition 13605 Part 5	P/M	Records	S323																
VOC	BAAQMD Condition 13605 Part 3	N		Control device standards; includes 99.5% efficiency requirement	BAAQMD Condition 21053 Part 3 and 4	P/A	Source Test (ST-4)	S323																
VOC	BAAQMD Condition 21053 Part 3	Y		Vapor recovery system shall have a destruction efficiency of at least 99.5% by weight	BAAQMD Condition 21053 Part 3	P/every 5 years prior to Title V renewal	Source Test	S323																
VOC	BAAQMD Condition 21100 Part 2	Y		Vapor recovery system shall have a destruction efficiency of at least 99.5% by weight	BAAQMD Condition 21100 Part 4	P/every 5 years prior to Title V renewal	Source Test	S1496																
POC	BAAQMD Condition 21100 Part 3	Y		POC emissions shall not exceed 8,868 pounds per year	BAAQMD Condition 21100 Part 5	P/I and upon change of service	Calculate	S1496																

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Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
TVP	BAAQMD Condition 21100 Part 3	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21100 Part 5	P/M	Records	S1496																
POC	BAAQMD Condition 21393 Part 2	Y		POC emissions shall not exceed 15,904 pounds per year	BAAQMD Condition 21393 Part 4	P/I and upon change of service	Calculate	S871																
TVP	BAAQMD Condition 21393 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21393 Part 4	P/M	Records	S871																
VOC	BAAQMD Condition 21536 Part 2 and 3	Y		Overall collection and adsorption efficiency of at least 95% by weight POC	BAAQMD Condition 21536 Part 4 and 5	P/E	PID or FID	S1489, S1490, S1491																
POC	BAAQMD Condition 21536 Part 3	Y		POC emissions shall not exceed 711.50 pounds per year	BAAQMD Condition 21536 Part 10	P/I and upon change of service	Calculate	S1489, S1490																
POC	BAAQMD Condition 21536 Part 4	Y		POC emissions shall not exceed 355.75 pounds per year	BAAQMD Condition 21536 Part 10	P/I and upon change of service	Calculate	S1491																
TVP	BAAQMD Condition 21536 Part 4A and 4B	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 21536 Part 10	P/M	Records	S1489, S1490, S1491																

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Tank Group Applicable Limits & Compliance Monitoring Requirements

Type	Citation	Limit		Description	Citation	Monitoring		Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
		FE Y/N	Future Effective Date			Frequency (P/C/N)	Type																	
POC	BAAQMD Condition 22640 Part 2	Y		POC emissions shall not exceed 8,384.42 pounds per year	BAAQMD Condition 22640 Part 4	P/I and upon change of service	Calculate	S1506, S1507																
TVP	BAAQMD Condition 22640 Part 2	Y		True Vapor Pressure shall not exceed 11 psia	BAAQMD Condition 22640 Part 4	P/M	Records	S1506, S1507																
TVP	BAAQMD Condition 23739 Part 2	Y		True Vapor Pressure shall not exceed 7.3 psia	BAAQMD Condition 23739 Part 3	P/M	Records	S1521																
TVP	BAAQMD Condition 24724 Part 1	Y		True Vapor Pressure shall not exceed 11.0 psia	BAAQMD Condition 23739 Part 3	P/M	Records	S690																
TVP	BAAQMD Condition 27597 Part 2	Y		True Vapor Pressure shall not exceed 1.3 psia	BAAQMD Condition 27597 Part 5	P/M	Testing	S621																
POC and NPOC	BAAQMD Condition 27597 Part 3	Y		POC and NPOC emissions shall not exceed 2,038 pounds per any consecutive 12-month period and/or 8.1 lb/day	BAAQMD Condition 27597 Part 4	P/I and upon change of service	Calculate	S621																
Toxic Emissions	BAAQMD Condition 27597 Part 3	Y		POC emissions shall not exceed any toxic trigger	BAAQMD Condition 27597 Part 4	P/I and upon change of service	Calculate	S621																

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Tank Group Applicable Limits & Compliance Monitoring Requirements

Limit				Monitoring																				
Type	Citation	FE Y/N	Future Effective Date	Description	Citation	Frequency (P/C/N)	Type	Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
TVP	BAAQMD Condition 27598 Part 2	Y		True Vapor Pressure shall not exceed 0.86 psia	BAAQMD Condition 27598 Part 4	P/M	Records	S2023																
POC and NPOC	BAAQMD Condition 27598 Part 3	Y		POC and NPOC emissions shall not exceed 38.6 pounds per any consecutive 12-month period and/or 2.6 lb/day	BAAQMD Condition 27598 Part 4	P/I and upon change of service	Calculate	S2023																
Toxic Emissions	BAAQMD Condition 27598 Part 3	Y		POC emissions shall not exceed any toxic trigger	BAAQMD Condition 27598 Part 4	P/I and upon change of service	Calculate	S2023																
TVP	BAAQMD Condition 27603 Part 2	Y		True Vapor Pressure shall not exceed 0.01 psia	BAAQMD Condition 27603 Part 4	P/M	Records	S651																
POC and NPOC	BAAQMD Condition 27603 Part 3	Y		POC and NPOC emissions shall not exceed 413.2 pounds per any consecutive 12-month period	BAAQMD Condition 27603 Part 4	P/I and upon change of service	Calculate	S651																
Toxic Emissions	BAAQMD Condition 27603 Part 3	Y		POC emissions shall not exceed any toxic trigger	BAAQMD Condition 27603 Part 4	P/I and upon change of service	Calculate	S651																
BAAQMD Permit Conditions (Throughputs)																								

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Type	Citation	Limit		Description	Citation	Monitoring		Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
		FE Y/N	Future Effective Date			Frequency (P/C/N)	Type																	
Throughput	BAAQMD Condition 20923 Part 1	Y		700,000 bbls in every consecutive 12 month period	BAAQMD Condition 20923 Part 4	P/M	Records	S134																
Throughput	BAAQMD Condition 21100 Part 1	Y		2,500,000 bbls in any consecutive 12-month period	BAAQMD Condition 21100 Part 5	P/M	Records	S1496																
Throughput	BAAQMD Condition 21393 Part 1	Y		20,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 21393 Part 4	P/M	Records	S871																
Throughput	BAAQMD Condition 21536 Part 1 and 2	Y		13,000 bbls in any consecutive 12 month period	BAAQMD Condition 21536 Part 9 and 10	P/M	Records	S1489, S1490, S1491																
Throughput	BAAQMD Condition 22455 Part 9	Y		70,080,000 bbls in any consecutive 12 month period	BAAQMD Condition 22455 Part 12	P/M	Records	S1489, S1490, S1491, S1506, S1507 combined																
Throughput	BAAQMD Condition 22640 Part 1	Y		11,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 22640 Part 4	P/M	Records	S1506, S1507 combined																
Throughput	BAAQMD Condition 24724 Part 1	Y		18,250,000 bbls in any consecutive 12 month period	BAAQMD Condition 24724 Part 3	P/M	Records	S690																
Throughput	BAAQMD Condition 23263 Part a.1	Y		2,500,000 bbls in any consecutive 12 month period	BAAQMD Condition 23263 Part a.3	P/M	Records	S896																
Throughput	BAAQMD Condition 23739 Part 1	Y		10,000,000 bbls in any consecutive 12 month period	BAAQMD Condition 23739 Part 3	P/M	Records	S1521																

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Type	Citation	Limit		Description	Citation	Monitoring		Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
		FE Y/N	Future Effective Date			Frequency (P/C/N)	Type																	
Throughput	BAAQMD Condition 26408 Part 1	Y		250,000 gallons in any consecutive 12 month period	BAAQMD Condition 26408 Part 3	P/M	Records	S1564																
Throughput	BAAQMD Condition 27587 Part 2	Y		243,382 bbls in any consecutive 12 month period and/or 6,105 bbls in any consecutive 24 hour period	BAAQMD Condition 27587 Part 17	P/D	Records	S601																
Throughput	BAAQMD Condition 27587 Part 3	Y		743,831 bbls in any consecutive 12 month period and/or 81,751 bbls in any consecutive 24 hour period	BAAQMD Condition 27587 Part 17	P/D	Records	S650																

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Tank Group Applicable Limits & Compliance Monitoring Requirements

Type	Citation	Limit		Description	Citation	Monitoring		Source #	101 AB	102 ABCD	201	202 ABCD	203 ABCD	204 ABC	301	302	303 AB	401	402	403 ABCD	404 ABC	405 (Res.)	501	502
		FE Y/N	Future Effective Date			Frequency (P/C/N)	Type																	
Throughput	BAAQMD Condition 27587 Part 4	Y		Total: 2,650,447 bbls in any consecutive 12 month period and/or 54,882 bbls in any consecutive 24 hour period Renewable naphtha: 365,000 bbls in any consecutive 12 month period and/or 54,882 bbls in any consecutive 24 hour period	BAAQMD Condition 27587 Part 17	P/D	Records	S692																
Throughput	BAAQMD Condition 27587 Part 5	Y		522,234 bbls in any consecutive 12 month period and/or 14,982 bbls in any consecutive 24 hour period	BAAQMD Condition 27587 Part 17	P/D	Records	S699																
Throughput	BAAQMD Condition 27597 Part 1	Y		12,045,000 bbls in any consecutive 12 month period and/or 58,000 bbls in any consecutive 24 hour period	BAAQMD Condition 27597 Part 4	P/M	Records	S621																

Section G Wastewater Sources (except tanks)

**Table VII – G.1
 Applicable Limits and Compliance Monitoring Requirements**

Wastewater Components Subject to BAAQMD 8-8

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD 8-8-312	N		Controlled WW collection system components: vapor tight	BAAQMD 8-8-402.4 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components; vapor tight	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-313.2	N		Uncontrolled WW collection system components; not vapor tight on regular semi-annual inspection	BAAQMD 8-8-313.2 8-8-402.3 8-8-504 8-8-603	P/ Reinspect within 30 days of discovery and every 30 days until controlled or returned to semi-annual inspection schedule	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-312 8-8-313.2 8-8-402.1	N		Wastewater Inspection and Maintenance Plan Records	BAAQMD 8-8-505	P/E Each inspection and repair	Records

**Table VII – G.2
 Applicable Limits and Compliance Monitoring Requirements
 Individual Drain Systems Subject to 40 CFR 63 Subpart FFFF**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 63.136(e)(1)	Y		adequate water seal level in drains if Group 1 wastewater	40 CFR 63.136(f)(1)	P/SA	Visual inspection
POC	40 CFR 63.136(e)(2)	Y		Tight seals at junction boxes	40 CFR 63.136(f)(2)	P/SA	Visual inspection
POC	40 CFR 63.136(e)(3)	Y		No cracks, gaps, or holes in unburied sewer lines	40 CFR 63.136(f)(3)	P/SA	Visual inspection

**Table VII – G.3
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – G.4
 Applicable Limits and Compliance Monitoring Requirements**

**S532 - Oil Water Separator; Tank T-532 - 50 Unit Desalter Skim Tank
 Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61.347 (a)(1)(i)(A)	Y		500 ppmv	40 CFR 61.347(a)(1)(i)(A) 61.355(h)	P/A	Method 21 portable hydrocarbon detector
POC	40 CFR 61.347 (a)(1)(i)(B)	Y		No cracks, gaps, or problems in OWS	40 CFR 61.347(b)	P/Q	Visual Inspection
VOC	BAAQMD 8-8-301.3	N		95% collection and destruction	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-301.3	Y		95% collection and destruction	SIP 8-8-602	N	Source Test

Table VII – G.4
Applicable Limits and Compliance Monitoring Requirements
S532 - Oil Water Separator; Tank T-532 - 50 Unit Desalter Skim Tank
Abated by A14 Vapor Recovery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD Condition 20099, Part 4	Y		98% collection and destruction	BAAQMD Condition 20099, Part 6	P/every 5 years prior to the Title V Permit Renewal	Source Test
Throughput	BAAQMD Condition 20099, Part 1	Y		2,505,360 barrels 12 consecutive month period	BAAQMD Condition 20099, Part 8	P/M and P/A	Records
Duration	BAAQMD Condition 20099, Part 7	Y		Preventative Maintenance on A-14 not to exceed 36 hours per any consecutive 12 month period	BAAQMD Condition 20099, Part 9	P/M	Records
Throughput	BAAQMD Condition 20099, Part 7	Y		There will be no liquid flow to T-532 during preventative maintenance on A-14	BAAQMD Condition 20099, Part 9	P/M	Records

Table VII – G.5
Applicable Limits and Compliance Monitoring Requirements

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – G.6
 Applicable Limits and Compliance Monitoring Requirements**

**S699 - Tank A-699
 API Separator Recovered Oil Tank
 Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-305.2	N		Control device standards; includes 70% efficiency	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-305.2	Y		Control device standards; includes 70% efficiency	SIP 8-8-602	N	Source Test
Throughput	BAAQMD Condition 27587, Part 5	Y		14,982 barrels in any consecutive 24-hour period 522,234 barrels in any consecutive 12 month period	BAAQMD Condition 27587, Part 17	P/D	Records
HAP	Refer to Tables VII – F.1 through F.3 for additional requirements.						

**Table VII – G.7
 Applicable Limits and Compliance Monitoring Requirements**

**S700 - Tank A-700
 API Separator Sludge 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 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-305.1	N		No cracks or gaps greater than 0.125 inch in roof or between roof and wall	BAAQMD 8-8-305.1	P/SA	Visual Inspection
VOC	SIP 8-8-305.1	Y		No cracks or gaps greater than 0.125 inch in roof or between roof and wall	SIP 8-8-305.1	P/SA	Visual Inspection
HAP	63.132(a)(1) BAAQMD Condition 27583, Part 7	Y		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
Throughput	BAAQMD Permit Condition 27587, Part 6	Y		23,039 barrels in any consecutive 24-hour period 1,166,667 barrels in any consecutive 12-month period	BAAQMD Condition 27587, Part 17	P/D	Records

**Table VII – G.8
 Applicable Limits and Compliance Monitoring Requirements**

**S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
 Abated by A39 or Abated by A14 Vapor Recovery**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.132(a)(1), BAAQMD Condition 27583, Part 7	Y		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
Pressure	BAAQMD Condition 7406, Part B3	Y		Air space below DNF covers controlled to pressure less than atmospheric	None	N	N/A
FP	BAAQMD 6-1-310.1	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD 8-8-114	N		Exemption for Bypassed Oil-Water Separator or Air Flotation Unit Influent	BAAQMD 8-8-501 8-8-601	P/E	Records and sample analysis
VOC	SIP 8-8-114	Y		Exemption for Bypassed Oil-Water Separator or Air Flotation Unit Influent	SIP 8-8-501 8-8-601	P/E	Records and sample analysis
VOC	BAAQMD 8-8-302.3	Y		95% collection and destruction [API Separator]	BAAQMD 8-8-602	N	Source Test
VOC	SIP 8-8-302.3	Y		95% collection and destruction [API Separator]	BAAQMD 8-8-602	N	Source Test
VOC	BAAQMD 8-8-302.6	N		Vapor tight roof seals, fixed covers, access doors, openings [API Separator]	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-303	Y		Vapor tight gauging and sampling devices	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC	BAAQMD 8-8-307.2	N		70% collection and destruction efficiency, vapor recovery system [DNF]	BAAQMD 8-8-602	N	Source Test

**Table VII – G.8
 Applicable Limits and Compliance Monitoring Requirements**

**S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
 Abated by A39 or Abated by A14 Vapor Recovery**

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 8-8-307.2	Y		70% collection and destruction efficiency, vapor recovery system [DNF]	BAAQMD 8-8-602	N	Source Test
Throughput	BAAQMD Condition 27587, Part 12	Y		435,936 barrels in any consecutive 24-hour period 32,537,143 barrels in any consecutive 12 month period	BAAQMD Condition 27587, Part 17	P/D	Records
Applicable requirements when S-819 is Abated by A-39 Thermal Oxidizer							
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
Temperature	BAAQMD Condition 7406, Part B10	Y		A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
HAP	63.132(a)(1)	Y		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
HAP	BAAQMD Condition 27583, Part 7	N		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
Applicable requirements when S-819 is Abated by A14 Vapor Recovery							

Table VII – G.8
Applicable Limits and Compliance Monitoring Requirements
S819 - API Oil Water Separator (OWS)/Dissolved Nitrogen Flotation (DNF)
Abated by A39 or Abated by A14 Vapor Recovery

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.132(a)(1)	Y		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
HAP	BAAQMD Condition 27583, Part 7	N		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations

**Table VII – G.9
 Applicable Limits and Compliance Monitoring Requirements**

**S830 - Wastewater Surge Ponds,
 S831 - Bio-Oxidation Pond,
 S842 - Wastewater Treatment Plant,
 S1101, S1102, S1103, S1104 - Subsurface Aerator Systems**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	BAAQMD Regulation 8, Rule 8 Exempt per 8-8-113						
HAP	63.132(a)(1)	Y		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
HAP	BAAQMD Condition 27583, Part 7	N		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
Throughput S830	BAAQMD Condition 27587, Part 13	Y		319,476 barrels in any consecutive 24-hour period 35,522,066 barrels in any consecutive 12 month period	BAAQMD Condition 27587, Part 17	P/D	Records
Throughput S831	BAAQMD Condition 27587, Part 14	Y		319,476 barrels in any consecutive 24-hour period 35,522,066 barrels in any consecutive 12 month period	BAAQMD Condition 27587, Part 17	P/D	Records
Throughput S842	BAAQMD Condition 27587, Part 15	Y		319,476 barrels in any consecutive 24-hour period 35,522,066 barrels in any consecutive 12 month period	BAAQMD Condition 27587, Part 17	P/D	Records

**Table VII – G.10
Applicable Limits and Compliance Monitoring Requirements**

**S1026 - DNF Effluent Air Stripper
Abated by A39 Thermal Oxidizer**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-1-310.1	Y		0.15 grain/dscf	None	N	N/A
Pressure	BAAQMD Condition 7406, Part B3	Y		Air space below DNF covers controlled to pressure less than atmospheric	None	N	N/A
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
Temperature	BAAQMD Condition 7406, Part B10	Y		A39 > 1350° F	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring

**Table VII – G.11
Applicable Limits and Compliance Monitoring Requirements**

S2013 - Moving Bed Biofilm Reactor

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition 27610, Part 3	Y		85.5 pounds per calendar day 26,105 pounds per consecutive 12 month period	BAAQMD Condition 27610, Part 3	P/D	Calculations
Throughput	BAAQMD Condition 27610, Part 1	Y		864,000 gallons per calendar day 236,520,000 gallons per consecutive 12 month period	BAAQMD Condition 27610, Parts 1 and 2	C	Flow meter

Section H Sulfur and Ammonia Processing

**Table VII – H.1
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.2
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.3
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.4
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.5
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.6
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.7
 Applicable Limits and Compliance Monitoring Requirements**

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Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – H.8
 Applicable Limits and Compliance Monitoring Requirements**

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Pollutant	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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Section J Miscellaneous Organic Sources (including Fugitive Components)

**Table VII – J.1
 Applicable Limits and Compliance Monitoring Requirements**

Fugitive Components, Excluding Wastewater Components

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, Rule 18 and SIP Regulation 8, Rule 18							
TOC	BAAQMD 8-18-300	Y		Valves ≤ 100 ppm, Pumps ≤ 500 ppm, Compressors ≤ 500 ppm, Connectors ≤ 100 ppm, PRDs ≤ 500 ppm General Equipment ≤ 100 ppm	BAAQMD 8-18-401.5	P/E (24 hrs after repair/minimization)	Method 21 Inspection
TOC	BAAQMD 8-18-301	Y		General equipment leak ≤ 100 ppm	None	P/E	Method 21 Inspection
TOC	BAAQMD. 8-18-302.1 8-18-302.2	N		Valve leak ≤ 100 ppm	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
TOC	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
TOC	BAAQMD 8-18-306.1 8-18-306.2 8-18-306.3 8-18-306.4	N		Non-repairable valves < 10,000 ppm	BAAQMD 8-18-401.9	P/Q	Method 21 inspection
TOC	BAAQMD. 8-18-303.1 8-18-303.2	N		Pump and compressor leak ≤ 500 ppm	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
TOC	BAAQMD 8-18-304.1 8-18-304.2	N		Connection leak ≤ 100 ppm	BAAQMD 8-18-401.6	P/E (Annually or APCO and EPA-approved connection inspection program)	Method 21 Inspection

**Table VII – J.1
 Applicable Limits and Compliance Monitoring Requirements
 Fugitive Components, Excluding Wastewater Components**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	BAAQMD. 8-18-304	N		Connection opened during turnaround leak \leq 100 ppm	BAAQMD. 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
TOC	BAAQMD 8-18-306.1 8-18-306.2 8-18-306.3 8-18-306.4	N		Non-repairable connection < 10,000 ppm	BAAQMD 8-18-401.6	P/E (Annually or APCO and EPA-approved connection inspection program)	Method 21 inspection
TOC	BAAQMD. 8-18-305	Y		Pressure relief valve leak \leq 500 ppm	BAAQMD. 8-18-401.2 8-18-401.7	P/Q	Method 21 Inspection
TOC	BAAQMD 8-18-305	Y		Inaccessible pressure relief valve leak \leq 500 ppm	BAAQMD 8-18-401.3	P/A	Method 21 Inspection
TOC	BAAQMD 8-18-305	Y		Pressure relief valve leak \leq 500 ppm	BAAQMD 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection
TOC	BAAQMD. 8-18-306.4	N		Non-repairable equipment must be repaired or replaced within 5 years or at the next scheduled turnaround	BAAQMD 8-18-502.4 8-18-503.1.1	P/Q	Report

Table VII – J.1
Applicable Limits and Compliance Monitoring Requirements
Fugitive Components, Excluding Wastewater Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	
TOC	BAAQMD 8-18-306.1 8-18-306.2 8-18-306.3 8-18-306.4	N		Maximum percentage awaiting repair	BAAQMD 8-18-502.4 8-18-503.1.2 BAAQMD 8-18-306.4	P/Q P/E	Report Repair/replace within 5 years or at next scheduled turnaround, whichever is first	
				Components				%
				Valves and Connections as allowed by Section 8-18-306.3				0.15
				Pressure Relief Devices				0.5
				Pumps and Compressors	0.5			
TOC	BAAQMD 8-18-307	Y		Liquid Leak more than 3 drops/min, unless minimized with 24 hrs & repaired within 7 days	None	P/E	Records	
TOC	BAAQMD 8-18-403	Y		No evidence of leak in Pumps and Compressors	BAAQMD 8-18-403	P/D	Visual Inspection	
TOC	BAAQMD 8-18-403	Y		Pumps and Compressors with Evidence of Leak on visual inspection	BAAQMD 8-18-403	P/E	Method 21 Inspection	
TOC	SIP 8-18-302	Y		Valve leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.2	P/Q	Method 21 Inspection	
TOC	SIP 8-18-302	Y		Inaccessible Valve leak \leq 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.3	P/A	Method 21 Inspection	

Table VII – J.1
Applicable Limits and Compliance Monitoring Requirements
Fugitive Components, Excluding Wastewater Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	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
TOC	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/E (Annually or EPA-approved connection inspection program)	Method 21 Inspection
TOC	SIP 8-18-304.2	Y		Connection leak ≤ 100 ppm or minimize in 24 hours, repair in 7 days	SIP 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
TOC	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
TOC	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
40 CFR 61; Subpart FF							
POC	40 CFR 61.343(a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR 61.343(a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 63.345(a)(1)(i)	Y		Container fittings leak ≤ to 500 ppm	40 CFR 63.345(a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.347(a)(1)(i)(A)	Y		O/W Separator fittings leak ≤ 500 ppm	40 CFR 61.347(a)(1)(i)(A)	P/A	Method 21 Inspection

**Table VII – J.1
 Applicable Limits and Compliance Monitoring Requirements
 Fugitive Components, Excluding Wastewater Components**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61.349 (a)(1)(i)	Y		Closed-vent system fittings < 500 ppm above background	40 CFR 61.349 (a)(1)(i)	P/A	Method 21 Inspection
40 CFR 63 Subpart R							
VOC	40 CFR 63.424(c) and (d)			No limit – repair leaks within 15 days and perform first attempt at repair withing 5 days	40 CFR 63.424(a)	P/M	Repair Leak/AVO
40 CFR 63 Subpart UU – equipment leaks subject to 40 CFR 60 Subpart EEEE and to 40 CFR 63 Subpart FFFF							
OHAP	40 CFR 63.1024(a)	Y		No limit – repair leaks within 15 days and perform first attempt at repair withing 5 days	40 CFR 63.1024(a)	P/E	Repair Leak/Method 21
OHAP	40 CFR 63.1025(b)(2)	Y		GV/LL valve leak ≤ 500 ppm	40 CFR 63.1025(b)(3)	P/M, Q (Frequency may be reduced based on leak percent)	Method 21 Inspection
OHAP	40 CFR 63.1025(e)(1)	Y		GV/LL valve designated as Unsafe to Monitor leak ≤ 500 ppm	40 CFR 63.1025(e)(1)	P/E (monitor according to UTM plan)	Method 21 Inspection
OHAP	40 CFR 63.1025(e)(2)	Y		GV/LL valve designated as Difficult to Monitor leak ≤ 500 ppm	40 CFR 63.1025(e)(2)	P/A	Method 21 Inspection
OHAP	40 CFR 63.1025(e)(3)	Y		< 250 GV/LL valves ≤500 ppm	40 CFR 63.1025(e)(3)	P/Q, SA, A, or BA	Method 21 Inspection
OHAP	40 CFR 63.1026(b)(2)	Y		LL pump ≤ 1,000 ppm	40 CFR 63.1026(b)(1)	P/M	Method 21 Inspection
OHAP	40 CFR 63.1026(d)	Y		LL Pump, no leak indicated by AVO	40 CFR 63.1026(b)(4)	P/W	AVO
OHAP	40 CFR 63.1026(e)(1)(i)-(vii)	Y		No limit - LL pump - DMS meet design requirements	40 CFR 63.1026(e)(1)(viii)	P/W	AVO

Table VII – J.1
Applicable Limits and Compliance Monitoring Requirements
Fugitive Components, Excluding Wastewater Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OHAP	40 CFR 63.1026(e)(2)	Y		No limit - LL pump - no EAS	40 CFR 63.1026(e)(2)	P/N	Exempt from monitoring
OHAP	40 CFR 63.1026(e)(3)	Y		No limit – LL pump routed to FGS or CVS	40 CFR 63.1026(e)(3)	P/N	Exempt from monitoring
OHAP	40 CFR 63.1026(e)(4)	Y		LL pump - unmanned plant site ≤ 1,000 ppm	40 CFR 63.1026(e)(4)	P/M	Method 21 Inspection, no AVO
OHAP	40 CFR 63.1026(e)(6)	Y		LL pump designated as Unsafe to Monitor ≤ 1,000 ppm	40 CFR 63.1026(e)(6)	P/E	Method 21 Inspection, according to UTM plan
OHAP	40 CFR 63.1027(b)(2) 40 CFR 63.2480(b)(4)	Y		GV/LL connector ≤500 ppm (not required by 40 CFR 63 Subpart FFFF)	40 CFR 63.1027(b)(3) 40 CFR 63.2480(b)(4)	P/A (Frequency may be reduced based on leak percent)	Method 21 Inspection
OHAP	40 CFR 63.1027(e)(1) 40 CFR 63.2480(b)(4)	Y		GV/LL connector designated as Unsafe to Monitor leak ≤ 500 ppm (not required by 40 CFR 63 Subpart FFFF)	40 CFR 63.1027(e)(1) 40 CFR 63.2480(b)(4)	P/E (monitor according to UTM plan)	Method 21 Inspection
OHAP	40 CFR 63.1027(e)(2) 40 CFR 63.2480(b)(4)	Y		GV/LL connector designated as Inaccessible no leak, indicated by AVO (not required by 40 CFR 63 Subpart FFFF)	40 CFR 63.1027(e)(2)(i) 40 CFR 63.2480(b)(4)	P/E	Exempt from monitoring, remove evidence of AVO leak
OHAP	40 CFR 63.1028(c)(2)	Y		GV/LL agitator ≤ 10,000 ppm	40 CFR 63.1028(c)(1)	P/M	Method 21 Inspection
OHAP	40 CFR 63.1028(c)(3)(ii)	Y		GV/LL agitator, no leak indicated by AVO	40 CFR 63.1028(c)(3)(i)	P/W	AVO
OHAP	40 CFR 63.1028(e)(1)(i)-(v)	Y		GV/LL agitator – DMS meet design requirements	40 CFR 63.1028(e)(1)(vi)	P/W	AVO
OHAP	40 CFR 63.1028(e)(2)	Y		GV/LL agitator – no EAS	40 CFR 63.1028(e)(2)	P/E	Exempt from monitoring

Table VII – J.1
Applicable Limits and Compliance Monitoring Requirements
Fugitive Components, Excluding Wastewater Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OHAP	40 CFR 63.1028(e)(3)	Y		No limit – GV/LL agitator routed to FGS or CVS	40 CFR 63.1028(e)(3)	P/E	Exempt from monitoring
OHAP	40 CFR 63.1028(e)(4)	Y		GV/LL agitator - unmanned plant site ≤ 10,000 ppm	40 CFR 63.1028(e)(4)	P/M	Method 21 Inspection, no AVO
OHAP	40 CFR 63.1028(e)(5)	Y		GV/LL agitator – Difficult to Monitor ≤ 10,000 ppm	40 CFR 63.1028(e)(5)	P/E	Method 21 Inspection, according to DTM plan
OHAP	40 CFR 63.1028(e)(6)	Y		No limit - GV/LL agitator - Obstructed	40 CFR 63.1028(e)(6)	P/E	Exempt from monitoring
OHAP	40 CFR 63.1028(e)(7)	Y		GV/LL agitator – Unsafe to Monitor ≤ 10,000 ppm	40 CFR 63.1028(e)(7)	P/E	Method 21 Inspection, according to UTM plan
OHAP	40 CFR 63.1029(b)(2)	Y		HL agitator ≤ 10,000 ppm	40 CFR 63.1029(b)(1),(2),(3)	P/E (within 5 calendar days of AVO if AVO not eliminated)	AVO, Method 21 Inspection
OHAP	40 CFR 63.1029(b)(2)	Y		HL pump ≤ 1,000 ppm	40 CFR 63.1029(b)(1),(2),(3)	P/E (within 5 calendar days of AVO if AVO not eliminated)	AVO, Method 21 Inspection
OHAP	40 CFR 63.1029(b)(2)	Y		HL valve, connector, LL/HL PRD, instrumentation system (all connectors 40 CFR 63 FFFF only) ≤ 1,000 ppm	40 CFR 63.1029(b)(1),(3)	P/E (within 5 calendar days of AVO if AVO not eliminated)	AVO, Method 21 Inspection
OHAP	40 CFR 63.1030(b) 63.2480(e)(1)	Y		GV PRD ≤ 500 ppm (NDE)	40 CFR 63.1030(c) 63.2480(e)(2)(i) (FFFF)	P/E (within 5 days of release)	Method 21 Inspection

Table VII – J.1
Applicable Limits and Compliance Monitoring Requirements
Fugitive Components, Excluding Wastewater Components

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OHAP	40 CFR 63.1031(b),(c),(d)	Y		Compressor sensor shall detect failure of seal system, barrier fluid system, or both based on user-defined criterion	40 CFR 63.1031(c)	C or P/D	Sensor with audible alarm or checked daily
OHAP	40 CFR 63.1031(e)	Y		Compressor seals routed to FGS or CVS	40 CFR 63.1031(e)	N	Exempt from monitoring
OHAP	40 CFR 63.1031(f)	Y		Compressor ≤ 500 ppm (NDE)	40 CFR 63.1031(f)	P/A	Method 21 Inspection
OHAP	40 CFR 63.1032(b),(c)	Y		Sample connection system shall be equipped with closed-purge, closed-loop, or closed vent system	40 CFR 63.1032(c)	P/E	Design based control
OHAP	40 CFR 63.1033(b)	Y		Open-ended line shall be equipped with cap, blind flange, plug, or second valve	40 CFR 63.1032(b)	P/E	Design based control
OHAP	40 CFR 63.1034(b) 63.983(d)(2)	Y		Had piped closed vent system ≤ 500 ppm	40 CFR 63.983(b)(1)(i)(a)	P/E	Method 21 Inspection
OHAP	40 CFR 63.1034(b) 63.983(b)(1)(i)(B)	Y		Had piped closed vent systems – no AVO	40 CFR 63.983(b)(1)(i)(B)	P/A	AVO
OHAP	40 CFR 63.1034(b) 63.983(d)(2)	Y		Ductwork closed vent system ≤ 500 ppm	40 CFR 63.983(b)(1)(ii)	P/A	Method 21 Inspection
OHAP	40 CFR 63.1034(b) 63.983(b)(2)	Y		Unsafe to Monitor closed vent system	40 CFR 63.983(b)(2)(ii)	P/A	Monitoring not required more than once annually
OHAP	40 CFR 63.1034(b) 63.983(b)(3)	Y		Difficult to Monitor closed vent system	40 CFR 63.983(b)(3)(ii)	P/every 5 years	Method 21 Inspection/ AVO

**Table VII – J.1
 Applicable Limits and Compliance Monitoring Requirements
 Fugitive Components, Excluding Wastewater Components**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
OHAP	40 CFR 63.1035(a)	Y		Pumps leaking greater of > 10% or > 3 pumps in process unit or plant site, 6 month rolling average	40 CFR 63.1035(a)	P/E	Implement QIP
Permit Conditions							
POC	Condition 11609 Part B6A	Y		Pumps leak < 100 ppm (Alkylation Unit pumps abated by A14)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part A5	Y		Pumps leak < 100 ppm (AN 2508 Logistical Improvements)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part B5	Y		Pumps leak < 100 ppm (AN 2508 Flare Gas Recovery Compressors)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection
POC	Condition 19199 Part G5	Y		Pumps leak < 100 ppm (AN 2508 S1105 No. 4 HDS)	BAAQMD. 8-18-401.2	P/Q	Method 21 Inspection

Table VII – J.2
Applicable Limits and Compliance Monitoring Requirements
Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-28-303.1	N		Vented to vapor recovery, 95% control efficiency	None	N	N/A
POC	SIP 8-28-303.1	Y		Vented to vapor recovery, 95% control efficiency	None	N	N/A
POC	BAAQMD 8-28-304.1	Y		Initial PRD release in 5-year period	8-28-304.1	P/E within 90 days	Additional Process Hazard Analysis
POC	BAAQMD 8-28-304.2	Y		Second PRD release in a 5-year period	8-28-304.2	P/E within 1 year	Vent to vapor recovery, 95% control efficiency
POC	None	N		No limit	BAAQMD 8-28-402.1	P/D	Visual inspection
POC	None	N		No limit	BAAQMD 8-28-402.2	P/ Within 5 days of a release	Visual inspection
POC	None	Y		No limit	SIP 8-28-402	P/ Within 5 days of a release	Visual inspection
POC	None	N		No limit	BAAQMD 8-28-503	P/E	Monitoring System
40 CFR Part 63, Subpart FFFF							
OHAP	40 CFR 63.2480(e)(1)	N		500 ppm	40 CFR 63.1023(b) 63.2480(e)(2)	P/Within 5 days of a release	Method 21
OHAP	40 CFR 63.2480(e)(3)(i)-(ii)	Y	August 12, 2023	Implement pressure release management plan	None	N	N/A
OHAP	40 CFR 63.2480(e)(3)(iii)	Y	August 12, 2023	Perform root cause analysis and implement corrective action plan following release	None	N	N/A

Table VII – J.2
Applicable Limits and Compliance Monitoring Requirements
Atmospheric Pressure Relief Devices Subject to BAAQMD 8-28

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
40 CFR Part 63, Subpart EEEE							
OHAP	40 CFR 63.2346(a)(4)(v)	N		Set pressure must exceed 2.5 lb/in ²	40 CFR 63.180(b) 63.2346(a)(4)(v)	P/Q	Method 21 (5 day repair)

**Table VII – J.3
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – J.4
 Applicable Limits and Compliance Monitoring Requirements**

**S823 - Heat Exchanger Cleaning Pit North-Tank M286
 S824 - Heat Exchanger Cleaning Pit South-Tank M287**

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 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	SIP 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-311.1	N		TSP < those on Table 6-1-311.1 of Regulation 6-1-311	None	N	N/A
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check
Visible Emissions	BAAQMD 6-1-303	N		≥ Ringelmann No. 2 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check
Visible Emissions	SIP 6-303	Y		≥ Ringelmann No. 2 for no more than 3 minutes/hour	BAAQMD Condition 22227, Part 1	P/ Hourly during tube cleaning	Visual Emissions Check

Table VII – J.4
Applicable Limits and Compliance Monitoring Requirements

S823 - Heat Exchanger Cleaning Pit North-Tank M286
S824 - Heat Exchanger Cleaning Pit South-Tank M287

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions		Y		No limit	BAAQMD Condition # 22227, Part 1	P/ Hourly during tube cleaning	Visual inspection
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
VOC	BAAQMD 8-2-301	Y		15 lbs/day & 300 ppm total carbon, dry basis	BAAQMD 8-2-601	N	Source test

Table VII – J.5
Applicable Limits and Compliance Monitoring Requirements

S1543, S1544, S1545, S1546, S1547, S1548
Maintenance Shops Exempt Cold Cleaners

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 8-16-114	Y		Exemption: Emulsion or solution cleaner containing < 1% VOC	BAAQMD 8-16-502	None	Records
VOC	BAAQMD 8-16-303.5.1	Y		50 g/L (0.42 lb/gal) in solvent used for maintenance and repair cleaning	BAAQMD 8-16-124 8-16-502	None	Records

**Table VII – J.6
 Applicable Limits and Compliance Monitoring Requirements**

[Deleted. Source(s) Removed From Service]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – J.7
 Applicable Limits and Compliance Monitoring Requirements**

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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**Table VII – J.8
 Applicable Limits and Compliance Monitoring Requirements**

S1526 - No. 5 Gas Plant

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	BAAQMD Condition 27587, Part 1	Y		9,000 barrels of renewable propane and renewable naphtha per calendar day combined 1,825,000 barrels of renewable propane and renewable naphtha in any consecutive 12 -month period	BAAQMD Condition 27587, Part 5	P/D	Records
Throughput	BAAQMD Condition 27587, Part 2	Y		40 MMscf per calendar day	BAAQMD Condition 27587, Part 5	P/D	Records

Section K Abatement

**Table VII – K.1
 Applicable Limits and Compliance Monitoring Requirements**

**A39 API/DNF Thermal Oxidizer
 Abates S819 and S1026**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	NA
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	NA
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O2	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O2	None	N	N/A
VOC [OWS]	BAAQMD 8-8-302.3	N		95% collection and destruction	BAAQMD 8-8-602	N	Source test
VOC [OWS]	SIP 8-8-302.3	Y		95% collection and destruction	BAAQMD 8-8-602	N	Source test
VOC	BAAQMD 8-8-302.6	N		Vapor tight roof seals, fixed covers, access doors, openings [API Separator]	BAAQMD 8-8-504 8-8-603 SIP 8-8-603	N	Method 21 portable hydrocarbon detector
VOC [DNF]	BAAQMD 8-8-307.2	N		70% by weight collection and destruction	BAAQMD 8-8-602	N	Source test
VOC [DNF]	SIP 8-8-307.2	Y		70% by weight collection and destruction	SIP 8-8-602	N	Source test

**Table VII – K.1
 Applicable Limits and Compliance Monitoring Requirements**

**A39 API/DNF Thermal Oxidizer
 Abates S819 and S1026**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
Temperature	BAAQMD Condition 7406, Part B10			A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring
Applicable requirements when S-819 is Abated by A-39 Thermal Oxidizer							
H2S	BAAQMD Condition 7406, Part B7	Y		< 1 ppm H2S from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
NMHC	BAAQMD Condition 7406, Part B5A	Y		< 10 ppm NMHC as C1 on rolling one hour basis from A39	BAAQMD Condition 7406, Parts B10, B11	C	Temperature monitoring
HAP	63.132(a)(1), BAAQMD Condition 27583, Part 7	Y		Determine if stream meets Group 1 or Group 2 applicability criteria.	63.132(c) 63.144(b)(1) 63.2485(c)	N	Knowledge/ Bench test/ Test data/ Engineering calculations
Temperature	BAAQMD Condition 7406, Part B10			A39 > 1350° F	BAAQMD Condition 7406, Part B11	C	Temperature monitoring

**Table VII – K.2
 Applicable Limits and Compliance Monitoring Requirements**

**A40 Tract 6 Electric Thermal Oxidizer,
 A42 Hydrocracker Electric Thermal Oxidizer,
 A43 Tract 3 Electric Thermal Oxidizer
 Pump Seal Thermal Oxidizers**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
VOC (A40)	BAAQMD Condition 11609, Part A1	Y		≥ 95% control, 0.5 second residence time and 1400F minimum operating temperature	BAAQMD Condition 11609, Part A2	C	A40 Temperature monitor and pump flow indicators
					BAAQMD Condition 11609, Part A5.b	P/E twice daily	A40 Records
VOC (A42)	BAAQMD Condition 11609, Part C1	Y		≥ 95% control, 0.5 second residence time and 1400F minimum operating temperature	BAAQMD Condition 11609, Part C2	C	A42 Temperature monitor and pmp flow indicators
					BAAQMD Condition 11609, Part C5.b	P/E/ twice daily	A42 Records

**Table VII – K.2
Applicable Limits and Compliance Monitoring Requirements**

**A40 Tract 6 Electric Thermal Oxidizer,
A42 Hydrocracker Electric Thermal Oxidizer,
A43 Tract 3 Electric Thermal Oxidizer
Pump Seal Thermal Oxidizers**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC (A43)	BAAQMD Condition 11609, Part D1	Y		≥ 95% control, 0.5 second residence time and 1400F minimum operating temperature	BAAQMD Condition 11609, Part D2	C	A43 Temperature monitor and pump flow indicators
					BAAQMD Condition 11609, Part D5.b	P/E/ twice daily	A43 Records

**Table VII – K.3
 Applicable Limits and Compliance Monitoring Requirements**

**A1584 Trailer Mounted Combustor
 Abates S126, S127, S134, S137, S323, S603, S613, S656, S658, S699, S714, S819, S1025, S1560**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	BAAQMD 6-1-311.1	N		TSP < those on Table 6-1-311.1 of Regulation 6-1-311	None	N	N/A
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VOC	BAAQMD Condition 27543, Part 2	Y		99.5% destruction efficiency	BAAQMD Condition 27543, Part 5	C	Temperature monitor & recorder
NO _x	BAAQMD Condition 27543, Part 3	Y		0.10 lbs/MMBtu	BAAQMD Condition 27543, Part 9	N	Initial source test
CO	BAAQMD Condition 27543, Part 3	Y		0.074 lbs/MMBtu	BAAQMD Condition 27543, Part 9	N	Initial source test

**Table VII – K.3
Applicable Limits and Compliance Monitoring Requirements**

A1584 Trailer Mounted Combustor

Abates S126, S127, S134, S137, S323, S603, S613, S656, S658, S699, S714, S819, S1025, S1560

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition 27543, Part 3	Y		336.3 lbs/day 122,750 lbs/year	BAAQMD Condition 27543, Part 9	N	Initial source test
Temperature	BAAQMD Condition 27543, Part 4	Y		Temperature \geq 1400 °F	BAAQMD Condition 27543 Part 5	C	Temperature monitor & recorder

**Table VII – K.4
 Applicable Limits and Compliance Monitoring Requirements**

A2000 Sour Water Stripper Thermal Oxidizer

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Emissions	SIP 6-301	Y		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Visible Particles	BAAQMD 6-1-305	N		Prohibition of nuisance	None	N	N/A
Visible Particles	SIP 6-305	Y		Prohibition of nuisance	None	N	N/A
FP	BAAQMD 6-1-310.1	N		0.15 grain/dscf	None	N	N/A
FP	BAAQMD 6-310.3	N		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None	N	N/A
FP	BAAQMD 6-1-311.1	N		TSP < those on Table 6-1-311.1 of Regulation 6-1-311	None	N	N/A
FP	SIP 6-311	Y		4.10 P ^{0.67} lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Visible Emissions	BAAQMD 6-1-301	N		≥ Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
VOC	BAAQMD Condition 27591, Part 2	Y		VOC outlet concentrations based on destruction efficiency.	BAAQMD Condition 27591 Part 9	P	Initial source test and every 2 years
NH ₃	BAAQMD Condition 27591, Part 3	Y		99.9% destruction efficiency	BAAQMD Condition 27591 Part 9	P	Initial source test and every 2 years
Temperature	BAAQMD Condition 27591, Part 4	Y		Temperature ≥ 2100 °F	BAAQMD Condition 27591 Part 5	C	Temperature monitor

**Table VII – K.5
 Applicable Limits and Compliance Monitoring Requirements**

A2001 H2S Adsorption Vessels #1 (No. 5 Gas Plant)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None	Vapor from A-2001 is routed to the fuel gas system and a continuous H2S analyzer is used to monitor H2S concentration in the fuel gas mixpot. BAAQMD Condition 27592, Parts 2 to 5 contain requirements for H2S adsorbent change-out.						

**Table VII – K.6
 Applicable Limits and Compliance Monitoring Requirements**

A2002 H2S Adsorption Vessels #2 (Sour Water Stripper)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	BAAQMD Condition 27593, Part 5	Y		250 ppmv at outlet of the last H2S adsorbent vessel	BAAQMD Condition 27593 Part 2	P/D	Sampling and Testing

Section L Remediation

**Table VII – L.1
 Applicable Limits and Compliance Monitoring Requirements**

S1452 - Groundwater Hydrocarbon Recovery System with, 47 Oil/Water Wells, And Associated Pumps (39 Light hydrocarbon and 8 heavy hydrocarbon pumps), Valves, And Flanges

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition 9875, Part 6	Y		5,000,000 bbls/yr	None	N	N/A
40 CFR 63 Subpart GGGGG							
HAP	40 CFR 63.7886(b)(1)(v)	Y		For Transfer system: Comply with 63.7915-7918 (Option 1)	None	N	N/A
VOHAP	40 CFR 63.7886(b)(2)	Y		500 ppmw (40 CFR 63 Subpart GGGGG Option 2)	None	N	N/A
HAP	40 CFR 63.7886(b)(3)	Y		If subject to 40 CFR 61 or 40 CFR 63 Subpart, comply with the other subpart unless unit is exempt (Option 3)	None	N	N/A
40 CFR 63 Subpart GGGGG Transfer Systems							
Joints	40 CFR 63.7915(c)(2) 63.7918(d)(1)	Y		All joints or pipe section seams must be permanently or semi-permanently sealed	None	N	N/A
Leaks	40 CFR 63.7917(c) 63.7917(e)(1) 63.7917(e)(2) 63.7918(d)(2)	Y		No leaks or defects Make 1 st attempt at repair within 5 calendar days & repair within 45 calendars days unless no alternative available transfer system	40 CFR 63.7917(c)	P/A	Visual Inspections

Section M Facility Emissions Cap Requirements

**Table VII – M.1
 Applicable Limits and Compliance Monitoring Requirements**

S323 - Storage Tank A-323; S850 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit); S854 - East Air Flare; S919 - No. 19 Furnace; S920 - No. 20 Furnace; S926 - No. 26 Furnace; S928 - No. 28 Furnace; S929 - No. 29 Furnace; S930 - No. 30 Furnace; S931 - No. 31 Furnace; S932 - No. 32 Furnace; S933 - No. 33 Furnace, S934 - No. 34 Furnace; S935 - No. 35 Furnace; S937 - No. 1 Hydrogen Plant Furnace; S952 - Internal Combustion Engine; S953 - Internal Combustion Engine; S954 - Internal Combustion Engine; S973 - No. 55 Furnace

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition 8077, Part B2A Appendix A.4	Y		482.039 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2B Appendix A.4	Y		49.420 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2C Appendix A.4	Y		49.1 tons/month compensatory emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
CO	BAAQMD Condition 8077, Part B2D Appendix A.4	Y		Allowable accumulated emissions at end of any month 482 tons/year prorated by elapsed months + 8.1 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2A Appendix A.2	Y		1166.375 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
NOx	BAAQMD Condition 8077, Part B2B Appendix A.2	Y		197.893 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

**Table VII – M.1
 Applicable Limits and Compliance Monitoring Requirements**

S323 - Storage Tank A-323; S850 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit); S854 - East Air Flare; S919 - No. 19 Furnace; S920 - No. 20 Furnace; S926 - No. 26 Furnace; S928 - No. 28 Furnace; S929 - No. 29 Furnace; S930 - No. 30 Furnace; S931 - No. 31 Furnace; S932 - No. 32 Furnace; S933 - No. 33 Furnace, S934 - No. 34 Furnace; S935 - No. 35 Furnace; S937 - No. 1 Hydrogen Plant Furnace; S952 - Internal Combustion Engine; S953 - Internal Combustion Engine; S954 - Internal Combustion Engine; S973 - No. 55 Furnace

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition 8077, Part B2D Appendix A.2	Y		Allowable accumulated emissions at end of any month 1166.375 tons/year prorated by elapsed months + 69 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2A Appendix A.1	Y		216.830 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2B Appendix A.1	Y		76.594 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
Hydrocarbons	BAAQMD Condition 8077, Part B2D Appendix A.1	Y		Allowable accumulated emissions at end of any month 216.830 tons/year prorated by elapsed months + 35 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
SO2	BAAQMD Condition 8077, Part B2A Appendix A.3	Y		1674.373 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
SO2	BAAQMD Condition 8077, Part B2B Appendix A.3	Y		441.864 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

Table VII – M.1
Applicable Limits and Compliance Monitoring Requirements

S323 - Storage Tank A-323; S850 - Diesel HDO Unit No. 3 (formerly No. 3 HDS Unit); S854 - East Air Flare; S919 - No. 19 Furnace; S920 - No. 20 Furnace; S926 - No. 26 Furnace; S928 - No. 28 Furnace; S929 - No. 29 Furnace; S930 - No. 30 Furnace; S931 - No. 31 Furnace; S932 - No. 32 Furnace; S933 - No. 33 Furnace, S934 - No. 34 Furnace; S935 - No. 35 Furnace; S937 - No. 1 Hydrogen Plant Furnace; S952 - Internal Combustion Engine; S953 - Internal Combustion Engine; S954 - Internal Combustion Engine; S973 - No. 55 Furnace

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Condition 8077, Part B2D Appendix A.3	Y		Allowable accumulated emissions at end of any month 1674.373 tons/year prorated by elapsed months + 258 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2A Appendix A.5	Y		414.358 tons/year	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2B Appendix A.5	Y		43.613 tons/month Maximum emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2C Appendix A.5	Y		42 tons/month Compensatory emission limit	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]
PM	BAAQMD Condition 8077, Part B2D Appendix A.5	Y		Allowable accumulated emissions at end of any month 414.358 tons/year prorated by elapsed months + 9 tons	BAAQMD Condition 8077, Parts B4, B5	P/M	Calculations and Report [EMIT Report]

VIII TEST METHODS

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

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 1-604	Opacity Measurements	Manual of Procedures, Volume V, Continuous Emissions Monitoring
BAAQMD 6-1-301 SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-302 SIP 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD 6-1-304 SIP 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-310 SIP 6-310	Total Suspended Particulate Concentration Limits	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
BAAQMD 6-1-311 SIP 6-311	Total Suspended Particulate Weight Limits	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or EPA Method 5, Determination of Particulate Emissions from Stationary Sources
BAAQMD 8-2-301	Miscellaneous Operation Emission Limit	Manual of Procedures, Volume IV, ST-7 or ST-32; or EPA Method 25 or 25A
BAAQMD 8-5-301 8-5-602	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 8-5-331 8-3-502.2 8-5-603	VOC emissions for tank cleaning	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD 8-5-303 8-5-605	Pressure vacuum leak concentration	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
BAAQMD 8-5-601	Reid Vapor Pressure	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-5-603	Determination of Abatement Efficiency	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units; ST-7 Organic compounds

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-6-502	Portable Hydrocarbon Detector	EPA Reference Method 21 (60, Appendix A)
BAAQMD 8-6-601	Efficiency and Rate Determination	Manual of Procedures, Volume IV, ST-3 or ST-34
BAAQMD 8-6-603	Analysis of Samples, True Vapor Pressure	Manual of Procedures, Volume III, Method 28
BAAQMD 8-6-604	Determination of Applicability	EPA-450/3-87-026 (Exhibit A-2 in Appendix A or Appendix D), or Standard reference texts, or for liquid mixtures, use Raoult's Law of Partial Pressures as defined in Section 8-6-205 or ASTM Method D 2879-83
BAAQMD 8-7-301.2 8-7-603	Phase I Vapor Recovery Efficiency	Manual of Procedures, Volume IV, ST-36 or CARB Test Procedure TP-201.1
BAAQMD 8-7-301.6 8-7-301.13 8-7-302.5 8-7-602	Phase I and Phase II leak-free, vapor tight	Manual of Procedures, Volume IV, ST-38 (vaulted storage tanks) or CARB Test Procedure TP-201.3B (vaulted storage tanks)
BAAQMD 8-7-302.8 8-7-604	Phase II liquid removal	Manual of Procedures, Volume IV, ST-37
BAAQMD 8-7-302.12	Phase II nozzle liquid retain	CARB Test Procedure TP-201.2E or CARB specified equivalent
BAAQMD 8-7-302.13	Phase II nozzle spitting	CARB Test Procedure TP-201.2D or CARB specified equivalent
BAAQMD 8-7-606	Determination of applicability	Manual of Procedures, Volume III, Method 13
BAAQMD 8-8-301, 302	Vapor tight cover	EPA Reference Method 21, Determination of Volatile Organic Compounds Leaks
BAAQMD 8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (60, Appendix A)
BAAQMD 8-8-601	Wastewater Analysis for Organic Compounds	Manual of Procedures, Volume III, Lab Method 33, Determination of Dissolved Critical Volatile Organic Compounds in Wastewater Separators
BAAQMD 8-8-602	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-8-603	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (60, Appendix A)
BAAQMD 8-18-301, 8-18-302, 8-18-303, 8-18-304, 8-18-305	Leak inspection procedures	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD 8-18-120.3	Determination of mass emissions	EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPAA-453/R-95-017) November 1995
BAAQMD 8-33-301	Emission rate determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Vapor Recovery Units
BAAQMD 8-33-305	Vapor tight – delivery vehicles	Manual of Procedures, Volume IV, ST-33, Ethanol, Integrated Sampling
BAAQMD 8-33-309	Vapor recovery system – loading racks	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-601	Emission Rate Determination (Vapor Processing System)	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-602	Emission Rate Determination (Vapor Balance System)	Manual of Procedures, Volume IV, ST-3, Bulk Plants Emission Factor Determination
BAAQMD 8-33-603	Vapor Recovery System Loading Pressure	Manual of Procedures, Volume IV, ST-34, Bulk and Marine Loading Terminals Vapor Recovery Units
BAAQMD 8-33-604	Vapor Tight – Delivery Vehicles	Manual of Procedures, Volume IV, ST-33, Gasoline Cargo Tanks
BAAQMD 8-33-605	Analysis of Samples	Manual of Procedures, Volume III, Lab Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD 8-44-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-44-304.1	Tank vessel is leak free and gas tight	EPA Method 21
BAAQMD 8-46-301	POC emission rate limitation during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Distribution facilities and ST-34, Bulk Marine Loading Terminals, Vapor Recovery Units
BAAQMD 8-46-304.1	Tank vessel is leak free and gas tight	EPA Method 21

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-53-601	Measurement of TOC Concentrations	EPA Reference Methods 21 or 25A or BAAQMD Manual of Procedures, Volume IV, ST-7, Non-methane Organic Carbon Sampling
BAAQMD 8-53-602	Analysis of Materials, True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28: Determination of Vapor Pressure of Organic Liquids from Storage Tanks
BAAQMD 8-53-603	Analysis of Materials, Percent Water Volume	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
BAAQMD 8-53-604	Determination of Abatement Efficiency	Manual of Procedures, Volume IV, ST-7, or EPA Method 25 or 25A
BAAQMD 9-1-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-2-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD 9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume V, Continuous Monitoring
BAAQMD 9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-313	NH3 and H2S abatement efficiency	Manual of Procedures, Volume III, Method 32, Determination of H2S in Process Water Streams Manual of Procedures, Volume III, Method 1, Determination of NH3 in Effluents
BAAQMD 9-1-313.1	Sulfur in Fuel Limitation	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-1-313.2	Sulfur Removal and Recovery	Manual of Procedures, Volume III, Method 32, Determination of Hydrogen Sulfide in Process Water Streams and Method 1, Determination of Ammonia in Effluents

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-10-301, 303, 304	Determination of Nitrogen Oxides	Manual of Procedures Volume V Continuous Emissions Monitoring or Equivalent Verification System (CEMS verified by Manual of Procedures, Volume IV ST-13A and ST-14 Source Test)
BAAQMD 9-10-305	Determination of Carbon Monoxide and Stack-Gas Oxygen	Manual of Procedures Volume V Continuous Emissions Monitoring or Equivalent Verification System (CEMS verified by Manual of Procedures, Volume IV ST-6 and ST-14 Source Test)
BAAQMD 12-6-301	Acid Mist Emission Point	60, Appendix a, Method 8
60 Subpart J 60.102(a)(1)	Limit on particulate matter from FCCU catalyst regenerator	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources or Method 5F, Determination of Nonsulfate Acid Particulate Matter from Stationary Sources
60 Subpart J 60.102(a)(2)	Limit on opacity of gases from FCCU catalyst regenerator	Method 9, Visual Determination of Opacity from Stationary Sources
60 Subpart J 60.102(b)	Limit on particulate matter from FCCU catalyst regenerator when gases pass through incinerator or waste heat boiler burning auxiliary or supplemental fuel	Method 5B, Determination of Nonsulfuric Acid Particulate Matter from Stationary Sources or Method 5F, Determination of Nonsulfate Acid Particulate Matter from Stationary Sources
60 Subpart J 60.103(a)	Limit on carbon monoxide from FCCU catalyst regenerator	Method 10, Determination of Carbon Monoxide from Stationary Sources
60 Subpart J 60.104(a)(1)	Limit on H ₂ S in fuel gas for fuel gas combustion devices	Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries
60 Subpart J 60.104(a)(2)(i)	Limit on sulfur oxide from Claus sulfur recovery plant (corrected for oxygen)	Method 6 or 6C, Determination of sulfur dioxide emissions from stationary sources Method 3 or 3A, Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources
60 Subpart J 60.105 (a)(4)(iii)	H ₂ S CEMS performance test methods	Performance evaluations for this H ₂ S monitor under §60.13(c) shall use Performance Specification 7. Method 11, 15, 15A, or 16 shall be used for conducting the relative accuracy evaluations.
60 Subpart J 60.104(b)(2)	Limit on sulfur oxide from FCCU catalyst regenerator without add-on control device	Method 6, Determination of Sulfur Oxides from Stationary Sources Alternate Monitoring Plan as allowed under 60.105(i)(12)
60 Subpart J 60.106(e)	H ₂ S concentration monitoring	Method 11, Determination of Hydrogen Sulfide

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
60 Subpart J 60.106(e)(1)	H2S in fuel gas standard compliance determination	<p>Method 11, 15, 15A, or 16 shall be used to determine the H2S concentration.</p> <p>The gases entering the sampling train should be at about atmospheric pressure. If the pressure in the refinery fuel gas lines is relatively high, a flow control valve may be used to reduce the pressure. If the line pressure is high enough to operate the sampling train without a vacuum pump, the pump may be eliminated from the sampling train. The sample shall be drawn from a point near the centroid of the fuel gas line.</p> <p>(i) For Method 11, the sampling time and sample volume shall be at least 10 minutes and 0.010 dscm (0.35 dscf). Two samples of equal sampling times shall be taken at about 1-hour intervals. The arithmetic average of these two samples shall constitute a run. For most fuel gases, sampling times exceeding 20 minutes may result in depletion of the collection solution, although fuel gases containing low concentrations of H2S may necessitate sampling for longer periods of time.</p> <p>(ii) For Method 15 or 16, at least three injects over a 1-hour period shall constitute a run.</p> <p>(iii) For Method 15A, a 1-hour sample shall constitute a run.</p>
NSPS Title 40 Part 60 Appendix B	Performance Specifications	
Performance Specification 1	Continuous opacity monitoring systems	Method 9, Visual Determination of Opacity from Stationary Sources
Performance Specification 2	NOx and SO2 continuous emission monitoring systems	<p>Method 7, Determination of nitrogen oxide emissions from stationary sources</p> <p>Method 6, Determination of sulfur dioxide emissions from stationary sources</p>
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	Method 3, Gas analysis for the determination of emission rate correction factor or excess air
Performance Specification 4	CO continuous emission monitoring systems	Method 10, Determination of carbon monoxide emissions from stationary sources
Performance Specification 7	H2S continuous emission monitoring systems	Method 11, Determination of Hydrogen Sulfide
NSPS Title 40 Part 60 Appendix F	Quality Assurance Procedures	Note: This procedure applies only where specified in an applicable Subpart of 40 CFR Part 60, Part 61 or Part 63, or when required in a permit condition.

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
Procedure 1	QA requirements for gas continuous emissions monitoring systems	
63 Subpart CC 63.646(a) 63.120(b)(3) 63.120(b)(5)	Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement	40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
63 Subpart CC 63.646(a) 63.120(b)(4) 63.120(b)(6)	Refinery MACT (63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement	40 CFR 63, Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
63 Subpart CC 63.654(c)	Total air strippable hydrocarbon concentration (in ppmv as methane)	“Air Stripping Method (Modified El Paso Method) for Determination of Volatile Organic Compound Emissions from Water Sources” Revision Number One, dated January 2003, Sampling Procedures Manual, Appendix P: Cooling Tower Monitoring, prepared by Texas Commission on Environmental Quality, January 31, 2003 (incorporated by reference in §63.14) using a flame ionization detector (FID) analyzer for on-site determination as described in Section 6.1 of the Modified El Paso Method.
63 Subpart CC 63.658	Conduct sampling along the facility property boundary	Methods 325A and 325B of appendix A of part 63 and paragraphs (b) through (k) of 63.658.
63 Subpart UUU 63.1564(b)(1) 63.1572 Table 40	Test Methods for COMS (continuous opacity monitoring system)	NSPS Requirements: Performance Specification 1 (60, Appendix B)
63 Subpart UUU 63.1565(b)(1) 63.1572 Table 40	Test Methods for CO CEMS	NSPS Requirements except as allowed by Consent Decree: Performance Specification 4 (60, Appendix B); span value of 1,000 ppm; Procedure 1 (60, Appendix F), with Consent Decree exceptions for quarterly audits
63 Subpart UUU 63.1566(b)(2)	Performance Test for Organic HAP Emissions From Catalytic Reforming Units	Method 22 (60, Appendix A)
63 Subpart UUU 63.1567(b)(2)	Performance Test for Inorganic HAP (HCl) Emissions From Catalytic Reforming Units	Method 26 or 26A (60, Appendix A)

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
63 Subpart UUU 63.1568(b)(1) 63.1572 Table 40	Test Methods for SO2 CEMS for sulfur recovery unit (must include O2 monitor for correcting for excess air)	NSPS Requirements: Performance Specification 2 (60, Appendix B); span value of 500 ppm SO2; Methods 6 or 6C and 3A or 3 B (60, Appendix A); Procedure 1 (60, Appendix F)
NSPS Part 60 Subpart QQQ	Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (11/23/88)	
40 CFR, Subpart QQQ	Leak inspection procedures 60 Subpart QQQ, 60.696:	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart QQQ 40 CFR 60.692-5 (e)(1)	Leak inspection procedures 60 Subpart QQQ, 60.696:	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
40 CFR, Subpart QQQ, 60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.
NSPS Part 60 Subpart VV	Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (10/18/83)	
Subpart VV 40 CFR 60.482-2(b)(1), 60.482-7(b), 60.482-8(b), 60.482-10 (g),	Leak inspection procedures	60 Subpart VV, 60.485(b): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart VV 40 CFR 60.482-2(b)(2), 60.482-8(a),	Visual inspection	60 Subpart VV, 60.485(b)
Subpart VV 40 CFR 60.482-2(e), 60.482-4(a), 60.482-4(b), 60.482-7(f),	Leak inspection procedures	60 Subpart VV, 60.485(c): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart VV 40 CFR 60.483 and BAAQMD 8-18-404.1	Leak inspection procedures	60 Subpart VV, 60.485(b): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
NSPS Title 40 Part 60 Appendix A	Inspection Procedures	EPA Reference Method 21
NESHAP Part 61 Subpart FF	National Emission Standard for Benzene Waste Operations (3/7/90)	
Subpart FF 40 CFR 61.349 (a)(1)(i)	Leak inspection procedures	61 Subpart FF, 61.355(h): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart FF 40 CFR 61.354 (f)	Visual Inspection	61 Subpart FF, 61.354(f)
NESHAP Part 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) (6/6/84)	
Subpart V 40 CFR 61.242-2(b)(1), 61.242-7(b), 61.242-8(b)	Leak inspection procedures	61 Subpart V, 61.245(b): EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 61.242-2(b)(2), 61.242-2 (g), 61.242-8(a)	Visual Inspection	61 Subpart V, 61.242-2 (b)
Subpart V 61.242-2(e), 61.242-4(a), 61.242-4(b), 61.242-7(f), 61.242-11 (f)	Leak inspection procedures	61 Subpart V, 61.245(c) : EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart V 61.243 and BAAQMD 8-18-404.1	Leak inspection procedures	61 Subpart V, 61.245(b) : EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks

Table VIII Test Methods		
Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR, Subpart VV, 63.1046	Test methods, procedures	Method 21 of part 60, appendix A. Acceptable floating roof seal gap criteria included.
40 CFR, Subpart CC	Test methods, procedures	EPA reference method 21 (60, Appendix A), Determination of Volatile Organic Compound Leaks

IX PERMIT SHIELD

Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

**Table IX – A.1
 Permit Shield for Non-applicable Requirements**

Organic Liquid Storage Tanks

Citation	Title or Description (Reason not applicable)
60 Subpart UU	Standards of Performance for Asphalt Processing and Asphalt Roofing Manufacture (There are no asphalt storage tanks on site.)

**Table IX – A.2
 Permit Shield for Non-applicable Requirements**

S854 - East Air Flare, S992 - Emergency Flare

Citation	Title or Description (Reason not applicable)
Regulation 8, Rule 2	Miscellaneous Operations (Sources that are subject Regulation 10 are exempt from Regulation 8, Rule 2.)

**Table IX – A.3
 Permit Shield for Non-Applicable Requirements**

S1106 - No. 72 Furnace

Citation	Title or Description (Reason not applicable)
60 Subpart J	Standards of Performance for Petroleum Refineries (BAAQMD Permit Condition 19199, Part H1 allows for firing of natural gas only)

X REVISION HISTORY

Initial Major Facility Review Permit Issuance (Application 16484): December 1, 2003

Administrative Amendment (no application): May 27, 2004

Reopening Revision 1 (Application 9295): December 16, 2004

Minor Revision (Application 11265): December 30, 2004

Modify the materials to be stored at S-323 Tank A-323 to allow the storage of alkylate gasoline blending material. Increase vapor pressure of material to be stored from a Reid vapor pressure of 2 psia to 9 psia. The throughput of the tank will be decreased from 11,000,000 to 2,000,000 barrels per year. Add source testing requirement for A-14 Vapor Recovery System and process heaters to ensure VOC destruction efficiency of 99.5%. Update Tables II-A, II-B, Table IV –CV, Conditions 13605 and 21503, and Table VII-CB.

Reopening Revision 2 (Application 11696): February 1, 2005

Reopening Revision 2/3 (Application (12431 & 12599) March 9, 2007

Significant Revision (Revision 4): March 20, 2008

Application Number(s)	Description
14144/14141&16390/16389	Coker Modification Project and Revisions
14326/14325	No. 1 HSD Unit Modification
14375/14374	Sulfur Pit Vent Reroute (Consent Decree)
14753/14752	No. 2 Reformer Reactor Feed Preheater F-27
14893/14894	Benzene Saturation Unit Throughput Increase
14917/16496/16495	Firewater Pumps
14918/14919	New Tank S-896
15430/15429	Avon Wharf Slop Tanks
15683/15212	FCCU Change of Conditions (Consent Decree)
15681/15682	NOx Box
16015/15949	Sulfur Recovery Unit (Consent Decree)
16114/16018	Blowdown Tower S-822 Removal
16217/16125	New Gasoline/Blendstock Storage Tank
TBD/15944	Isocracker Unit Hydrogen Recycle Compressor Leak

Permit Renewal 2010/2011 (Application 18261):

June 28, 2011

Application Number(s)	Description
13228	S-1506 & S-1507 New Gasoline Tanks. Evaluation in Rev 3.
14374/14375	Reroute Sulfur Pit Vent. Evaluation in Rev 4.
16082	S-1009 Alkylation Unit Alteration Waste Water Flash Drum
16822/16823	S-896 New Slop Oil Tank
16850/16892	S-1008 Isocracker Unit HIR Compressor Leak Control
16888/16893	Modification of S-913 NOx Box
16889/16890	Modification of S-951 NOx Box
16908	No. 5 Gas Plant -- Wet Gas Compressor Seal Vent Change
17111	S-1416 Spent Acid Tank Vent
17413/17415	S-804 FCCU Blowdown Tower Removal
17470/17471	Modification of S-916 NOx Box
17472/17473	S-795 Perc Storage Vessel Adm. Change in Conditions
17478/17479	S-863 LPG Vaporizing System Adm. Change in Conditions
17500/17501	S-802 FCCU Adm Change in Conditions per Consent Decree
17537/17538	Adm Change in Conditions for Refinery Tanks
17712/17713	Adm Change in Conditions for Amorco Tanks
17752/17753	Consent Decree Requirements for Flares
17836	S-920 New Economizer Alteration
17913/17914	SRU Tail Gas Unit
17928/17458	Removal of Out of Service Sources
18311	Revision to Source Tests for Delayed Coker Heaters
18739/18738	Removal of Fluid Coker Sources
18748/18749	Modification of S-919 NOx Box
18752/18753	50 Unit Blowdown Tower Elimination & New 50 Unit Flare
18835/18832	S-1525 New Gasoline Dispensing Facility
18861/18862	Remove Redundant Fugitive Permit Conditions
18949/18950	Stripper OH (Hydrocracker) Reroute
18997/18998	S-861, S-1455 & S-1457 Cold Cleaner Exemption
19300/19301	S-904 (6BH) Remove CO Boiler Functionality
19326/19327	Avon Wharf Source Deletions And Condition Changes
19328/19329	Crude Tank A-700 Change In Conditions
19330/19331	Amorco IC Engines S-56 & S-57 Change in Conditions
19415	S-1528 Alkylate Unloading Rack

Application Number(s)	Description
19419/19418	Refinery IC Engines Change in Conditions
19647/19632	Consolidate Bubble Conditions 4357 and 8077.
19874/19875	Combustion Sources Change in Conditions
20143/20144	S-819 API Oil-Water Separator and S-1026 DNF Air Stripper
20259/20260	Modification of S-909 NOx Box
20359/20360	Modification of S-920 NOx Box
20679/20680	Delayed Coker Throughput Change
20929	Exempt Cold Cleaners
20977/20995	Backup Steam Boilers S-1550 and S-1551
20997/20995	Exemption for Portable Diesel Pump S-1552
21023/21024	Ethanol Unloading and Storage Throughput Increase
21464/21465	Furnace Duties Change of Conditions
21711/21712	Administrative Amendment to Address Appeal Items
21732/21733	Modification of S-919 NOx Box

Minor Revision (Renewal Revision 5):

January 11, 2016

	Revision Type	Project Description
11737	Minor	S-690 Crude Oil Tank Modification
20968/20969	Minor	S-1549 Tank 890 Diesel Additive Tank
21072/21141	Minor	S-912 NOx Box Revision
21713/21714	Minor	S-58 Amorco Wharf Diesel Generator
21744/21744	Minor	S-1510 Delayed Coker Emissions Revision
21787/21790	Minor	S-926 NOx Box Revision
21797/21800	Minor	S-913 NOx Box Revision
22148/22163	Administrative	S-1524 Flare Change of Conditions
22149/22151	Minor	S-919 NOx Box Revision
22152/22153	Minor	S-1552 Emergency Diesel Engine
22169/22170	Minor	S-1553 Backup Boiler
22580/22581	Minor	S-920 NOx Box Revision
22582/22583	Minor	S-926 NOx Box Revision
22615/22624	Minor	S-1020 Reformer Hot Feed Project
22823/22824	Minor	S-1554 High Sulfur Vacuum Gas Oil Tank
22971/22972	Minor	S-913 NOx Box Revision
23006/23007	Administrative	NOx Box Change of Condition 18372
23075	N/A	Alteration to S-802 FCCU
23232/23233	Minor	S-963 Alkylation Unit Gas Turbine CAM Plan
23322/23323	Minor	S-1020 No. 3 Reformer Capacity Increase
23339/23340	Minor	S-920 NOx Box Revision
23341/23425	Minor	S-1001 50 Crude Unit AGO Project
23848/23882	Minor	Title V Renewal Appeal Items -- Engines
23869	Minor	Greenhouse Gas Requirements Removal
23870/23871	Minor	S-916 NOx Box Revision
23854	Minor	Title V Renewal Appeal # 8&9, Wastewater, & #21 Miscellaneous
23981/23982	Minor	S-613 Bladder Tank and S-1025 Gasoline Truck Rack
24056/24057	Administrative	Bubble Condition 8077 Corrections
24065/24066	Minor	Title V Renewal Appeal Items -- Flares
24362/24363	Administrative	Change S-913 from 40# to 100# Fuel Gas Supply
24693	Administrative	Responsible Official Change
24920/24921	Minor	S-916 NOx Box Revision
25006/25007	Minor	S-913 NOx Box Revision

	Revision Type	Project Description
25191	Administrative	Facility Owner and Contact Name Change
25758/25759	Minor	S-1412 Sulfuric Acid Plant Start-up Heater 1980 Modification and 2014 Alteration
25942/25958	Minor	S-1557 Emergency Generator, Diesel Engine
26159/26160	Minor	S-920 NOx Box Revision
26272/26273	Minor	No 3 HDS Performance Test S-850, S-973, S-974, and Refinery Emissions Cap Adjustments
27121	Administrative	Responsible Official Name Change

Permit Renewal "Rev 6" 2017/2018 (Application 27668):

September 29, 2023

Application Number(s)	Revision Type	Description
23138/23139	Significant	Change is S-1005 Hydrogen Plant Source Test Frequency
25718/25719	Minor	S-830, S-977 and S-980 Grandfathered Limit Revisions
26198/26199	Administrative	S-1025 Truck Rack Backpressure Monitoring for 8-33 Compliance
26422/26423	Minor	NOx Box Revision for S-920
26552	N/A	S-1510 Delayed Coker Steam Ejectors
26602/27668	Minor	Slop Oil System Operation Change Piping
27030/27031	Minor	S-1517 Coker Flare Change in Conditions
27054/27065	Minor	S-904 No 6 Boiler Burner Replacement
27309/27310	Minor	S-973 and S-974 3HDS Furnace Startup/Shutdown Duration Change in Conditions
27395/27396	Minor	S1550, S1551, S1553, S1558, S1559 Back-up Boilers
27564/27565	Minor	S-1411 Sulfuric Acid Plant Production Limit
27791/27792	Minor	S-963 Alkylation Unit Gas Turbine Revised CAM Plan
27799/27800	Minor	Reformate Upgrade Project
27990/27991	Minor	S-1526 Avon Wharf MOTEMS Berth 1A Project
28073/28104	Minor	S-901 FCCU CO Boiler Low NOx Burners
28445/28446	Minor	S-963 Gas Turbine Replacement with Electric Motor
28553/28549	Minor	S-1572 No. 4 Gas Plant Emergency Generator
28916	n/a	Groundwater Remediation Change in Operation (AC Expired)
29058/29059	Minor	Add Supplemental Gas Equipment to Flares
29278/29274	Minor	Administrative Change in Conditions
29401	n/a	New S802 FCCU Feed 'Biocrude' in Tank S709 (AC Expired)
29416/29417	Minor	Install Flare Gas H2S Treatment
30642/30783	Minor	Change of Condition - Envent
30729	Minor	S-1401 SRU Change of Condition
30768/30769	Significant	Renewable Fuels Project
30806/30808	Minor	Alternate NOx Compliance Plan
30827/32023	Minor	Emergency Diesel Generator for Surge Pond #2 Pump
30846	Administrative	Responsible Official Name Change
31305/32023	Minor	A-1584 Trailer Mounted Combustor
31915/30769	Minor	S-1601 Aqueous Ammonia Tank
31991/30769	Minor	S-646 and S-647 Renewable Propane Tank
32029/32030	Significant	Tanks Applicability for TV Permit
32097	Administrative	Responsible Official Name Change

X. Revision History

Application #	Revision Type	Project Description	Date
700645/700648	Administrative Amendment	Responsible Official Name Change	March 18, 2024

XI GLOSSARY

ACT

Federal Clean Air Act

AMP

Alternative Monitoring Plan (as allowed in NSPS and MACT)

ANCP

Alternate NOx Compliance Plan

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

Bubble

An emission limit imposed on a group of sources.

C5

An Organic chemical compound with five carbon atoms

C6

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

CEQA

California Environmental Quality Act

CEM

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NO_x concentration) in an exhaust stream.

CFP

Clean Fuels Project

CFR

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

CGA

Calibration Gas Audit

CO

Carbon Monoxide

CO₂

Carbon Dioxide

Consent Decree

Case No. SA-05-CA-0569-RF; United States of America v. Valero Refining Company – California, et.al. in the United States District Court, Western District of Texas, San Antonio Division, Lodged 6/15/2005, Entered 11/23/2005

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

DAF

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

DWT

Dead Weight Ton

District

The Bay Area Air Quality Management District

DNF

Dissolved Nitrogen Flotation (See DAF)

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

EMP

Environmental Management Plan

EPA

The federal Environmental Protection Agency.

ESP

Electrostatic Precipitator

Excluded

Not subject to any District Regulations.

FAT

Field Accuracy Test

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FR

Federal Register

FRT

Floating Roof Tank (See EFRT and IFRT)

GDF

Gasoline Dispensing Facility

GLM

Ground Level Monitor

grains

1/7000 of a pound

Grandfathered source

A source that was not subject to District permit requirements at the time it was constructed, but was subsequently required to obtain a District permit to operate, and has never been modified since the permit requirement went into effect. Sources constructed prior to March 7, 1979 (when the District's new source review permit program went into effect) might be grandfathered sources. Source that were exempt from permit requirements at the time of construction, that subsequently lost their exemption due to a change in permit rules, might also be grandfathered sources.

Graphitic

Made of graphite.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by Part 63.

H2S

Hydrogen Sulfide

H2SO4

Sulfuric Acid

HC

Hydrocarbon

HDO

Hydrodeoxygenation

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

IFRT

An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

ISOM

Isomerization plant

JHT

Jet Hydrotreater

LFSO

Low sulfur fuel oil

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Lighter

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

LNC

Light Neutral Hydrocracker

LNHF

Light Neutral Hydrofinisher

Long ton

2200 pounds

LPG

Liquid Petroleum Gas
Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of any 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.

MCPU

Miscellaneous organic chemical manufacturing process unit.

MDEA

Methyl Diethanolamine

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MM

Million

MOP

The District's Manual of Procedures

MSDS

Material Safety Data Sheet

MTBE

methyl tertiary-butyl ether

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPs

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

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO_x

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note There are additional NSR requirements mandated by the California Clean Air Act.)

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

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

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM10

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of 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 Part 52 and District Regulation 2, Rule 2.

RAA

Relative Accuracy Audit

RACT

Reasonably Available Control Technology

RATA

Relative Accuracy Test Audit

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RFG

Refinery Fuel Gas

RMG

Refinery Make Gas

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SOCMI

Synthetic Organic Chemical Manufacturing Industry

SO2

Sulfur dioxide

SO2 Bubble

An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from petroleum refining operations. This facility is no longer classified as a petroleum refinery; however, this definition still applies. The waste gas product from renewable feedstock refining operations is referred to as "fuel gas." Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of fuel gas that is consumed, and the concentration of H2S and other sulfur compounds in the fuel gas.

SO3

Sulfur trioxide

SRU

Sulfur Recovery Unit

ST-7

Source Test Method #7 Non-Methane Organic Carbon Sampling

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

Title V

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

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TPH

Total Petroleum Hydrocarbons

TRS

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO2 that will be present in the combusted fuel gas, since sulfur compounds are converted to SO2 by the combustion process.

TS
Total Sulfur

TSP
Total Suspended Particulate

TVP
True Vapor Pressure

VGO
Vacuum Gas Oil

VOC
Volatile Organic Compounds

VR
Vapor Recovery

WWT
Wastewater Treatment

Units of Measure:

bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
BPD	=	barrels per day
BPH	=	barrels per hour
BPY	=	barrels per year
BTU or btu	=	British Thermal Unit
C	=	degrees Celsius
dscf	=	dry standard cubic feet
dscm	=	dry standard cubic meters
F	=	degrees Fahrenheit
f ³	=	cubic feet
g	=	grams
gr	=	grains
gal	=	gallon
gpm	=	gallons per minute

hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
k or K	=	thousand
max	=	maximum
m ²	=	square meter
min	=	minute
Mg	=	mega-gram, one million grams
µg	=	micro-gram, one millionth of a gram
ml	=	milliliter
MM	=	million
mm	=	millimeter
MMbtu	=	million BTU
mmBtu	=	million BTU
mmbtu	=	million BTU
MMBTU	=	million BTU
mm Hg	=	millimeters of Mercury (pressure)
MW	=	megawatts
ppmv	=	parts per million, by volume
ppmvd	=	parts per million, by volume, dry basis
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
TPD	=	tons per day
TPY	=	tons per year
tpy	=	tons per year
yr	=	year

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to