Bay Area Air Quality Management District

375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 771-6000

~~Final~~Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:
Shore Terminals LLC
Facility #A0581

Facility Address:
90 San Pablo Ave.
Crockett, CA ~~94553~~94525

Mailing Address:
90 San Pablo Ave.
Crockett, CA ~~94553~~94525

Responsible Official	**Facility Contact**
Rob Hill	Curtis Shorts
General Manager	Terminal Manager
(916) 509-3254	(510) 787-1076 x 3503

Type of Facility:	Marine Terminal	BAAQMD Permit Division Contact:
Primary SIC:	4226	~~M.K. Carol Lee~~Jimmy Cheng
Product:	Receiving, Storing and Shipping of Petroleum products	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

~~Signed by Damian Breen for Jack P. Broadbent~~ ~~September 27, 2016~~

~~Jack P. Broadbent~~Sharon Landers, Interim Acting Executive Officer/Air Pollution Control Officer Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/4/11);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 12/15/2021, effective 07/01/2022~~on 4/18/12, effective 8/1/16~~);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 05/21/2018);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 12/05/2017~~on 12/19/12, effective 8/1/16~~);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 05/21/2018);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 12/06/2017~~on 12/19/12~~); ~~and~~
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 05/21/2018~~through 1/26/99~~)
BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as amended by the District Board on 12/15/2021; effective 7/1/2022~~on 01/06/10~~); ~~and~~
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 12/06/2017~~4/16/03~~); and
SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95).

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

1. This Major Facility Review Permit was issued on September 27, 2016 and will expire on September 26, 2021. The permit holder shall submit a complete application to renew this Major Facility Review Permit no later than March 26, 2021 no earlier than September 26, 2020. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility cannot operate after September 26, 2021.** If the permit renewal has not been issued by September 26, 2021, 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)

I. Standard Conditions

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 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 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. (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,

I. Standard Conditions

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 that is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

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

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The reporting periods shall be September 1st through the last day of February and March 1st through August 31st. Reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent 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, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be March 1st to the last day of February of each year. The certification shall be submitted by March 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent by e-mail to r9.aeo@epa.gov or postal mail to

I. Standard Conditions

the Environmental Protection Agency at the following address:

Director
Enforcement Division, TRI & Air Section (ENF-2)
USEPA, Region IX
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

The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

II. EQUIPMENT

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
1	Gasoline Receiving Tank T-7901	External Floating Roof (welded)		3,360,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
2	Gasoline Receiving Tank T-7902	External Floating Roof (welded)		3,360,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
3	Gasoline Receiving Tank T-7903	External Floating Roof (welded)		3,360,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
5	Gasoline Storage Tank T-5001	External Floating Roof (welded)		2,100,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
6	Gasoline Storage Tank T-5002	External Floating Roof (welded)		2,100,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
12	Storage tank T-15101	External Floating Roof (welded)		6,300,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
15	Tank T-6402; 67 MBBL Gasoline Storage Tank	External Floating Roof (welded)		2,814,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
22	Gasoline Loading Rack (two Islands)			18 Fillers Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
23	Oil/Water Separator		API	7,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
24	Selby Terminal Gasoline Shipping Tank T-2401	External Floating Roof Tank (welded)		1,008,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
25	Selby Terminal Shipping tank Gasoline T-1501	External Floating Roof Tank (welded)		588,000 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
26	Water Storage Pond			105,699 gallons Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
27	Marine Vessel Loading			2 fillers Facility Emissions Cap Condition 12677	NSR Application 30472 (1986)
30	Tank T-6401; 67 MBBL Gasoline Storage Tank	External Floating Roof Tank (welded)		2,814,000 gallons Facility Emissions Cap Condition 12677	NSR Application 31247 (1986)
32	T-15102, MTBE/Gasoline Storage Tank	Fixed Roof Tank		6,300,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)
33	T-20101, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)
34	T-20102, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
35	T-20103, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)
36	T-20104, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)
37	T-20105, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)
38	T-20106, ethanol/gasoline/petroleum ~~MTBE/gasoline~~ storage tank	Internal Floating ~~Fixed~~ Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677 Condition 27277	NSR Applications 6719 (1991) and 30713 (2022)
39	T-20107, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
40	T-20108, ethanol/gasoline/petroleum ~~MTBE/gasoline~~ storage tank	Internal Floating ~~Fixed~~ Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677 Condition 27277	NSR Applications 6719 (1991) and 30713 (2022)
41	T-20109, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677	NSR Application 6719 (1991)
42	T-20110, ethanol/gasoline/petroleum ~~MTBE/gasoline~~ storage tank	Internal Floating ~~Fixed~~ Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677 Condition 27277	NSR Applications 6719 (1991) and 30713 (2022)
43	T-20111, ethanol/gasoline/petroleum ~~MTBE/gasoline~~ storage tank	Internal Floating ~~Fixed~~ Roof Tank		8,022,000 gallons Facility Emissions Cap Condition 12677 Condition 27277	NSR Applications 6719 (1991) and 30713 (2022)
44	T-3001, ethanol/gasoline/petroleum ~~MTBE/gasoline~~ storage tank	Internal Floating ~~Fixed~~ Roof Tank		1,260,000 gallons Facility Emissions Cap Condition 12677 Condition 27277	NSR Applications 6719 (1991) and 30713 (2022)

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity	Grandfathered Limit, or Firm Limit and Basis
48	Emergency Standby Generator Set for Fire Pump	Caterpillar	C18	900 BHP Operating Limit Condition # 22850	NSR Application 26088 (2014)

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Vapor Recovery System	S-22	BAAQMD Condition # 12677 Part 8A	Infrared combustible gas detector/recorder measures hydrocarbon concentration	0.08 lb POC/1000 gal
A-421	Charcoal Adsorption Vapor Recovery unit	S-27, S-32 through S-37, S-39, S-41~~S-44~~	BAAQMD Condition # 6185 Part 5, Part 15	Infrared combustible gas detector measures hydrocarbon concentration	1 lb POC/ 1000 barrel
A-422	Charcoal Adsorption Vapor Recovery unit	S-27, S-32 through S-37, S-39, S-41~~S-44~~	BAAQMD Condition # 6185 Part 5, Part 15	Infrared combustible gas detector measures hydrocarbon concentration	1 lb POC/ 1000 barrel

Table II C – Significant Sources

The following source is exempt from the requirement to obtain an authority to construct and permit to operate, but is defined as a significant source pursuant to BAAQMD Regulation 2-6-239.

S-#	Description	Make or Type	Model	Capacity
47	Emergency Standby Generator	Caterpillar	D30-8S	49 BHP

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 would 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 rule and the version of the rule 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)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/2001)	N
SIP Regulation 1	General Provisions and Definitions (6/28/1999)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (4/18/2012, effective 8/1/16)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/2004)	N
SIP Regulation 2-1-429	Federal Emissions Statement (4/3/1995)	Y
BAAQMD Regulation 2, Rule 2	New Source Review (4/8/2012. Effective 8/1/16)	Y
BAAQMD Regulation 2, Rule 4	Emissions Banking (12/19/2012)	N
SIP Regulation 2, Rule 4	Emissions Banking (1/26/1999)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (6/15/05)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 2, Rule 6	Major Facility Review (4/16/2003)	N
SIP Regulation 2, Rule 6	Major Facility Review (6/23/1995)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/1990)	Y
BAAQMD Regulation 5	Open Burning (6/19/2013)	N
SIP Regulation 5	Open Burning (9/4/1998)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/5/2007)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/1998)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/1982)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/1994)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/2005)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/1995)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (07/01/2009)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/2004)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/2002)	Y
BAAQMD Regulation 8, Rule 18	Organic Compounds – Equipment Leaks (9/5/2004)	N
SIP Regulation 8, Rule 18	Valves and Connectors at Petroleum Complexes, Chemical Plants, Bulk Plants and Bulk Terminals (3/4/1992)	Y
SIP Regulation 8, Rule 25	Pump and Compressor Seals at Petroleum Refineries, Chemical Plants, Bulk Plants and Bulk Terminals (6/1/1994)	Y
BAAQMD Regulation 8, Rule 33	Organic Compounds – Waste (Oil-Water) Separators (6/1/1994)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/2005)	N
SIP Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/2001)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/2005)	N
SIP Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/1995)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/1995)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/2002)	N
SIP Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (2/26/2002)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/1998)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/1990)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/1981)	Y
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/1995)	Y
40 CFR 82, Subpart F	Protection of Stratospheric Ozone; Recycling and Emissions Reduction (04/13/2005)	Y
40 CFR 82, Subpart H	Protection of Stratospheric Ozone; Halon Emissions Reduction (03/05/1998)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s). Any subsection or subparts of any requirement are included as part of the listed applicable requirement. If only certain subsections or subparts of the section are listed, then only those subsections listed are applicable.

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

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

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

http://yosemite.epa.gov/R9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions. All other text may be found in the regulations themselves.

Table IV – A
Source-specific Applicable Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Ka

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-Storage of Organic Liquids (10/18/2006)**		
8-5-101	Description	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-112	Limited Exemption, Tanks in Operation	N	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tanks Control Requirements	N	
8-5-304	Requirements for External Floating Roofs	N	
8-5-320	Tank fitting requirements	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Ka

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2	Openings in the roof	Y	
8-5-320.3	Gasketed Covers	Y	
8-5-320.4	Solid sampling or gauging wells	Y	
8-5-320.4.1	The well shall provide a projection below the liquid surface	Y	
8-5-320.4.2	The well shall be equipped with a cover	Y	
8-5-320.4.3	The gap between the well and the roof	Y	
8-5-320.5	Slotted sampling or gauging wells	Y	
8-5-320.5.1	The well shall provide a projection below the liquid surface	Y	
8-5-320.5.2	The well requirements	Y	
8-5-320.5.3	The gap between the well and the roof	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-311.2.2	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gaps for welded tanks	Y	
8-5-322.5	For welded external floating roof tank with seal installed after September 4, 1985, no gap between tank shell and the secondary seal shall exceed 1.5 mm (0.06 in.). The cumulative length of all secondary seal gaps exceeding 0.5 mm (0.02 in.) shall be not more than 5% of the circumference of the tank excluding gaps less than 5 cm (1.79 in.) from vertical weld seams.	Y	
8-5-322.6	The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal.	Y	
8-5-328	Tank Degassing requirements	N	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	N	
8-5-328.2	An approved Emission Control System	Y	
8-5-328.3	Notification requirements	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-401	Primary seal inspection	N	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Ka

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-401.1	Once every 10 years for tanks subject to 8-5-322.5	N	
8-5-401.2	Tank Fitting Inspection	N	
8-5-501	Records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
SIP Regulation 8, Rule 5	Organic Compounds-Storage of Organic Liquids (06/05/2003)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-301	Storage Tanks Control Requirements	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after degassing	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.1	Primary and Secondary Seals Inspection twice per calendar year	Y	
8-5-401.2	Tank Fitting Inspection twice per calendar year	Y	
8-5-501	Keep records	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	**Y**	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.4(b)	Reports to EPA and District	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Ka

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS Part 60 Subpart Ka	**Standards of Performance for Storage Vessels For Petroleum Liquid for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984**	Y	
60.110(a)(a)	Applicability and designation of affected facility	Y	
60.112(a)(1)	External Floating Roof	Y	
60.113(a)(a)(1)	Testing and Procedures	Y	
60.115(a)(a)	Record period of storage and maximum true vapor pressure	Y	
60.115(a)(b)	True vapor pressure	Y	
60.115(a)(c)	Estimation of true vapor pressure	Y	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants For Source Categories**	Y	
Subpart A	**General Provisions**	**Y**	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing 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	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Ka

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.13	Addresses of EPA Regional Offices	Y	
63.14	Incorporation by Reference	Y	
63.15	Availability of information and confidentiality	Y	
40 CFR Part 63 Subpart R	**National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)**	**Y**	
63.420(a)(1)	The affected source	Y	
63.420(b)(1)	Pipeline breakout	Y	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subpart A—General Provisions	Y	
63.420(j)	Rules Stayed for Reconsideration	Y	
63.423	Standards: Storage vessels	Y	
63.423(b)	Design as requirements of § 60.112(b)(a)	Y	
63.423(c)	Comply by December 15, 1997	Y	
63.424	Standards: Equipment Leaks	Y	
63.425	Test methods and procedures	Y	
63.425(d)	Comply with § 60.113b	Y	
63.427	Monitoring	Y	
63.427(c)	Monitoring requirements in § 60.116b; 5 years records	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notification requirement	Y	
63.428(d)	Keep records and furnish reports	Y	
63.428(e)	Log book for each leak that is detected	Y	
BAAQMD Condition # 6185	**Permit Conditions**		
Part 16	6 tank degassing operations in any consecutive 12 month period [Basis: Cumulative Increase]	Y	
Part 17	Tank degassing shall be vented at all times to abatement devices [Basis: Regulation 8-5]	Y	
Part 23	No tank degassing during bulk liquid transfers, which are abated by A-421 and A-422 devices [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Ka

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 24	Record keeping for tank degassing operations [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 3	CO emission limitation [Basis: Cumulative Increase]	Y	
Part 4	NOx (as NO2) emission limitation [Basis: Cumulative Increase]	Y	
Part 5	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM10 emission limitation [Basis: Cumulative Increase]	Y	
Part 7	True vapor pressure $\leq$ 11.0 psia [Basis: Cumulative Increase]	Y	
Part 18	Submit report demonstrating compliance with permit conditions annually [Basis: Cumulative Increase]	Y	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar quarter [Basis: Cumulative Increase]	Y	

Table IV – B
Source-specific Applicable Requirements
S-12, S-15, S-24, S-25, AND S-30
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Kb

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-Storage of Organic Liquids (10/18/2006)**		
8-5-101	Description	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tanks Control Requirements	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-320	Tank fitting requirements	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-12, S-15, S-24, S-25, AND S-30
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Kb

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2	Openings in the roof	Y	
8-5-320.3	Gasketed Covers	Y	
8-5-320.4	Solid sampling or gauging wells	Y	
8-5-320.4.1	The well shall provide a projection below the liquid surface	Y	
8-5-320.4.2	The well shall be equipped with a cover	Y	
8-5-320.4.3	The gap between the well and the roof	Y	
8-5-320.5	Slotted sampling or gauging wells	Y	
8-5-320.5.1	The well shall provide a projection below the liquid surface	Y	
8-5-320.5.2	The well requirements	Y	
8-5-320.5.3	The gap between the well and the roof	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-311.2.2	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gaps for welded tanks	Y	
8-5-322.5	For welded external floating roof tank with seal installed after September 4, 1985, no gap between tank shell and the secondary seal shall exceed 1.5 mm (0.06 in.). The cumulative length of all secondary seal gaps exceeding 0.5 mm (0.02 in.) shall be not more than 5% of the circumference of the tank excluding gaps less than 5 cm (1.79 in.) from vertical weld seams.	Y	
8-5-322.6	The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal.	Y	
8-5-328	Tank Degassing requirements	N	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	N	
8-5-328.2	An approved Emission Control System	Y	
8-5-328.3	Notification requirements	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-401	Primary seal inspection	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-12, S-15, S-24, S-25, AND S-30
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Kb

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-401.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-401.2	Tank Fitting Inspection	Y	
8-5-501	Records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
SIP Regulation 8, Rule 5	**Organic Compounds-Storage of Organic Liquids (06/05/2003)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-301	Storage Tanks Control Requirements	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after degassing	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.1	Primary and Secondary Seals Inspection twice per calendar year	Y	
8-5-401.2	Tank Fitting Inspection twice per calendar year	Y	
8-5-501	Keep records	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	**Y**	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.4(b)	Reports to EPA and District	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-12, S-15, S-24, S-25, AND S-30
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Kb

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.12	Circumvention	Y	
60.13	Reconstruction	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS Part 60 Subpart Kb	**Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984**	Y	
60.110(b)(a)	Applicability and designation of affected facility	Y	
60.112(b)(a)(2)	External Floating Roof	Y	
60.113(b)(b)	Testing and Procedures	Y	
60.115(b)(b)	Reporting and recordkeeping requirements	Y	
60.116(b)	Monitoring of Operation	Y	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants For Source Categories**	Y	
Subpart A	**General Provisions**	**Y**	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting	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	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-12, S-15, S-24, S-25, AND S-30
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Kb

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63 Subpart R	**National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)**	Y	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subpart A—General Provisions	Y	
63.420(j)	Rules Stayed for Reconsideration	Y	
63.423	Standards: Storage vessels	Y	
63.423(a)	Requirements in § 60.112b(a) (1) through (4)	Y	
63.423(b)	External floating roof storage requirements in § 60.112b(a)(2)(ii)	Y	
63.423(c)	Comply by December 15, 1997	Y	
63.425	Test methods and procedures	Y	
63.425(d)	Comply with § 60.113b	Y	
63.427	Continuous monitoring	Y	
63.427(c)	Monitoring requirements in § 60.116b; 5 years records	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notification requirement	Y	
63.428(d)	Keep records and furnish reports	Y	
BAAQMD Condition # 6185	**Permit Conditions**		
Part 16	6 tank degassing operations in any consecutive 12-month period [Basis: Cumulative Increase]	Y	
Part 17	Tank degassing shall be vented at all times to abatement devices [Basis: Regulation 8-5]	Y	
Part 23	No tank degassing during bulk liquid transfers, which are abated by A-421 and A-422 devices [Basis: Cumulative Increase]	Y	
Part 24	Record keeping for tank degassing operations [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 3	CO emission limitation [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-12, S-15, S-24, S-25, AND S-30
EXTERNAL FLOATING ROOF TANKS
SUBJECT TO NSPS SUBPART Kb

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	NOx (as NO2) emission limitation [Basis: Cumulative Increase]	Y	
Part 5	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM10 emission limitation [Basis: Cumulative Increase]	Y	
Part 7	True vapor pressure ≤ 11.0 psia [Basis: Cumulative Increase]	Y	
Part 18	Submit report demonstrating compliance with permit conditions annually [Basis: Cumulative Increase]	Y	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar quarter [Basis: Cumulative Increase]	Y	

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE 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 (2/21/1994)**		
8-6-110	Exemption, Low Vapor Pressure Organic Liquids	Y	
8-6-111	Exemption, Low Throughput	Y	
8-6-114	Exemption, Maintenance and Repair	Y	
8-6-116	Exemption, Small Transportable Containers	Y	
8-6-117	Exemption, Liquefied Organic Gases	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 Practice	Y	
8-6-403	Compliance Schedule	Y	
8-6-501	Records	Y	
8-6-502	Portable Hydrocarbon Detector	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-6-503	Burden of Proof	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 Regulation 8, Rule 33	Gasoline Bulk Terminals and Gasoline Cargo Tanks (04/15/2009)		
8-33-112	Exemption, Tank Gauging and Inspection	N	
8-33-113	Exemption, Maintenance and Repair	N	
8-33-114	Exemption, CARB Certification	N	
8-33-115	Limited Exemption, Aviation Gasoline	N	
8-33-116	Limited Exemption, Source Test requirements	N	
8-33-301	Gasoline Bulk Terminal Emission Limitations	N	
8-33-301.2	Gasoline Bulk Terminal Emission Limitations	N	
8-33-303	Bottom Fill Requirement	N	
8-33-304	Gasoline Cargo Tank Requirements	N	
8-33-305	Gasoline Bulk Terminal Maintenance and Repair	N	
8-33-305.1	Equipment condition	N	
8-33-305.2	Product or Vapor hoses	N	
8-33-305.3	Portable Container or Slop tank hose connector	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 Requirements	N	
8-33-307.2	CARB-certified vapor recovery system requirements	N	
8-33-309	Gasoline Bulk Terminal Vapor Recovery System Requirements	N	
8-33-309.1	Organic emissions capture and control requirements	N	
8-33-309.2	Vapor recovery systems operation and maintenance requirements	N	
8-33-309.3	Vapor recovery systems in good working condition requirements	N	
8-33-309.4	Vapor recovery systems annual testing requirements	N	
8-33-309.5	Vapor leak requirements	N	
8-33-309.6	Liquid leak requirements	N	
8-33-309.7	Vapor recovery system piping requirements	N	
8-33-309.8	Liquid fill hose connector and vapor hose connector seals and P/V valves inspection requirements	N	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-33-309.9	Vapor hose hanger requirements	N	
8-33-309.10	Backpressure monitor installation on vapor collection piping requirements	N	
8-33-309.11	Device installation on each loading rack requirements	N	
8-33-309.11.1	Alarm system	N	
8-33-309.11.2	Automatic lockout system	N	
8-33-309.11.3	Alternate system	N	
8-33-309.12	Backpressure exceedance/shutdown/notification requirements	N	
8-33-309.13	Parametric monitoring implementation requirements	N	
8-33-309.14	Parametric limits monitoring and notification requirements	N	
8-33-309.15	Accessibility or permanent sample lines on all P/V valves requirements	N	
8-33-401	Equipment Installation and Modification	N	
8-33-403	Monitoring, Inspection, Notification and Reporting Requirements	N	
8-33-502	Vapor storage tank emissions records	N	
8-33-503	Annual source test	N	
8-33-504	P/V valve, liquid fill and vapor hose connector leak check records	N	
8-33-505	Loading rack backpressure records	N	
8-33-506	Parametric correlation records	N	
8-33-507	Parametric variable monitoring records	N	
SIP Regulation 8, Rule 33	**Organic Compounds-Gasoline bulk terminals and gasoline delivery vehicles (4/3/1995)**		
8-33-112	Tank Gauging and inspection	Y	
8-33-113	Maintenance and repair exemption	Y	
8-33-301	Final gasoline bulk terminal limitations	Y	
8-33-302	Vapor Recovery System requirement	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	
8-33-308	Vapor Diaphragm Requirements	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-33-309	Vapor Recovery System Requirements – Loading Rack	Y	
8-33-401	Equipment installation and modification	Y	
40 CFR 60	Standards of Performance for New Stationary Sources (12/23/1971)		
Subpart A	General Provisions		
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.4(b)	Reports to EPA and District	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	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 XX	**National Emission Standards for Bulk Gasoline Terminals (8/18/1983)**	**Y**	
60.500(a)	Loading racks at a bulk gasoline terminal applicability	Y	
60.500(b)	December 17, 1980	Y	
60.502	Standard for VOC emissions from bulk gasoline terminals	Y	
60.502(a)	Vapor collection system requirement	Y	
60.502(b)	The atmospheric emission limits	Y	
60.502(c)	The vapor collection emission limits	Y	
60.502(d)	Prevent any VOC vapors collected at one loading rack from passing to another loading rack	Y	
60.502(e)	Vapor-tight gasoline tank trucks	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.502(e)(1)	The owner or operator shall obtain the vapor tightness documentation	Y	
60.502(e)(2)	Tank identification number requirement	Y	
60.502(e)(3)	Cross-check each tank identification number with the file of tank vapor tightness documentation	Y	
60.502(e)(4)	Notification of each nonvapor-tight gasoline tank truck	Y	
60.502(e)(5)	Vapor tightness documentation	Y	
60.502(e)(6)	Alternate procedures	Y	
60.502(f)	Vapor collection equipment	Y	
60.502(g)	Training drivers in the hookup procedures and posting visible reminder signs	Y	
60.502(h)	The vapor collection and liquid loading equipment	Y	
60.502(i)	No pressure-vacuum at a system pressure less than 4,500 pascals	Y	
60.502(j)	Inspection for organic compounds liquid or vapor leaks	Y	
60.503	Test methods and procedures	Y	
60.503(a)	Methods and procedures of test methods	Y	
60.503(b)	Method 21 to monitor for leakage of vapor	Y	
60.503(c)	Determine compliance with the standards	Y	
60.503(c)(1)	The performance test	Y	
60.503(c)(2)	Performance test for intermittent operation	Y	
60.503(c)(3)	The emission rate (E) of total organic compounds	Y	
60.503(c)(4)	The performance test	Y	
60.503(c)(5)	Methods used to determine the volume (Vesi) air vapor mixture exhausted	Y	
60.503(c)(5)(ii)	Method 2A shall be used for all other vapor processing system	Y	
60.503(c)(6)	Method 25A or 25B shall be used for determining the total organics	Y	
60.503(c)(7)	Determine the volume (L) of gasoline dispensed	Y	
60.503(d)	Determine compliance with the standard	Y	
60.503(d)(1)	A pressure measurement device	Y	
60.503(d)(2)	Highest instantaneous pressure	Y	
60.505	Reporting and recordkeeping	Y	
60.505(a)	The tank truck vapor tightness documentation	Y	
60.505(b)	The documentation file for each gasoline tank truck	Y	
60.505(b)(1)	Gasoline Delivery Tank Pressure Test—EPA Reference Method 27	Y	
60.505(b)(2)	Tank owner and address	Y	
60.505(b)(3)	Tank identification number	Y	
60.505(b)(4)	Testing location	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.505(b)(5)	Date of test	Y	
60.505(b)(6)	Tester name and signature	Y	
60.505(b)(7)	Witnessing inspector, if any: Name, signature, and affiliation	Y	
60.505(b)(8)	Test results: Actual pressure change in 5 minutes, mm of water	Y	
60.505(c)	Inspection records	Y	
60.505(c)(1)	Date of inspection	Y	
60.505(c)(2)	Findings	Y	
60.505(c)(3)	Leak determination method	Y	
60.505(c)(4)	Corrective action	Y	
60.505(c)(5)	Inspector name and signature	Y	
60.505(d)	Documentation of all notifications	Y	
60.505(f)	Records of all replacements or additions of components	Y	
60.506	Reconstruction	Y	
60.506(a)	Cost calculations	Y	
60.506(b)	Fixed capital cost	Y	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants for Source Categories**	Y	
Subpart A	**General Provisions**	**Y**	
63.4	Prohibited activities and circumvention	Y	
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting	Y	
63.12	State authority and delegations	Y	
40 CFR 63 Subpart R	**National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/14/1994)**		
63.420(g)	Most stringent control requirements	Y	
63.420(h)	40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.422	Standards: Loading racks	Y	
63.422(a)	Comply with the requirements in § 60.502	Y	
63.422(b)	Emission Limitation	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
63.422(c)	Comply with § 60.502(e)	Y	
63.422(c)(1)	The term ‘‘tank truck’’ as used in § 60.502(e) means ‘‘cargo tank.’’	Y	
63.422(c)(2)	Vapor tightness documentation	Y	
63.422(c)(2)(i)	The gasoline cargo tank meets the applicable test requirements in § 63.425(e)	Y	
63.422(c)(2)(ii)	Gasoline cargo tank failing the test in § 63.425 (f) or (g) at the facility, the cargo tank either	Y	
63.422(c)(2)(ii)(A)	Meets the test requirements in § 63.425 (g) or (h)	Y	
63.422(c)(2)(ii)(B)	Passes the annual certification test	Y	
63.422(d)	December 15, 1997 deadline	Y	
63.425	Test methods and procedures	Y	
63.425(a)	Conduct a performance test	Y	
63.425(b)	Determine a monitored operating parameter	Y	
63.425(b)(1)	Continuously record the operating parameter	Y	
63.425(b)(2)	Determine an operating parameter value	Y	
63.425(b)(3)	Develop the value, monitoring frequency	Y	
63.425(c)	Document the reasons for any change in the operating parameter value	Y	
63.427	Continuous monitoring	Y	
63.427(a)(1)	Continuous emission monitoring system (CEMS)	Y	
63.427(a)(2)	Continuous parameter monitoring system (CPMS)	Y	
63.427(b)	The vapor processing system operation	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notifications	Y	
63.428(b)	Keep records of the test results for each gasoline cargo tank loading	Y	
63.428(b)(1)	Annual certification testing	Y	
63.428(b)(2)	Continuous performance testing performed at any time	Y	
63.428(b)(3)	The documentation file	Y	
63.428(b)(3)(i)	Name of test	Y	
63.428(b)(3)(ii)	Cargo tank owner’s name and address	Y	
63.428(b)(3)(iii)	Cargo tank identification number	Y	

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Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.428(b)(3)(iv)	Test location and date	Y	
63.428(b)(3)(v)	Tester name and signature	Y	
63.428(b)(3)(vi)	Witnessing inspector, if any: Name, signature, and affiliation	Y	
63.428(b)(3)(vii)	Vapor tightness repair	Y	
63.428(b)(3)(viii)	Test results	Y	
63.428(c)	Bulk gasoline terminal requirements	Y	
63.428(c)(1)	Accessible record of the continuous monitoring data	Y	
63.428(c) (2)	Record and report simultaneously with the notification of compliance	Y	
63.428(c)(2)(i)	Determining the operating parameter value	Y	
63.428(c)(3)	Vapor processing system or monitor an operating parameter	Y	
63.428(g)	Include information	Y	
63.428(g)(1)	Vapor tightness documentation	Y	
63.428(h)	Submit an excess emissions report	Y	
63.428(h)(1)	The report shall include the monitoring data	Y	
63.428(h)(2)	Vapor tightness documentation	Y	
63.428(h)(3)	Reloading of a nonvapor-tight gasoline cargo tank	Y	
63.428(h)(4)	Equipment leak	Y	
63.428(h)(4)(i)	The date on which the leak was detected	Y	
63.428(h)(4)(ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4)(iii)	The reasons for the delay of repair	Y	
63.428(h)(4)(iv)	The date of successful repair	Y	
40 CFR 64	**Compliance Assurance Monitoring (10/22/1997)**	Y	
64.2(a)	Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	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
64.3(a)(1)	Data for one or more indicators	Y	
64.3(a)(2)	Indicator range	Y	
64.3(a)(3)	Design of indicator ranges	Y	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Specifications for obtaining data	Y	
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency, procedures, and averaging periods	Y	
64.3(b)(4)(i)	Design of period over which data are obtained, etc.	Y	
64.3(b)(4)(iii)	Frequency for other pollutant-specific emission units	Y	
64.3(c)	Evaluation factors	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submittal of monitoring that satisfies design requirements in 40 CFR 63.4	Y	
64.4(b)	Justification for the proposed monitoring	Y	
64.4(b)(1)	Presumptively acceptable monitoring approaches	Y	
64.4(c)(1)	Submittal of control device operating parameter data obtained during tests	Y	
64.4(c)(2)	Documentation of no changes to system after performance tests	Y	
64.5(b)	Deadline for submittals for other pollutant-specific emissions units	Y	
64.5(d)	Prior to approval, emissions unit subject to 40 CFR 70.1(a)(3)(i)(B)	Y	
64.6(a)	Approval by permitting authority	Y	
64.6(b)	Additional data collection	Y	
64.6(c)	Establishment of permit terms or conditions	Y	
64.6(d)	Installation, testing or final verification	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
64.10	Savings provisions	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 3	CO emission limitation [Basis: Cumulative Increase]	Y	
Part 4	NOx (as NO2) emission limitation [Basis: Cumulative Increase]	Y	
Part 5	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM10 emission limitation [Basis: Cumulative Increase]	Y	
Part 8	Loading racks shall be vented to the A-1 vapor recovery system	Y	
Part 8 (A)	POC emissions shall not exceed 0.04 lb/Mgal of gasoline loaded [Basis: Regulation 8-33]	Y	
Part 8 (B)	Install a combustible gas detector/recorder [Basis: Regulation 2-1-403]	Y	
Part 8 (C)	Fail-safe instrumentation if the hydrocarbon content in excess of 4% (as butane) [Basis: Regulation 2-1-403]	Y	
Part 8 (D)	Test the overall hydrocarbon emission once every six month [Basis: Regulation 2-1-403]	Y	
Part 8 (F)	Operating time between carbon bed switching shall be no more than 30 minutes [Basis: Regulation 8-5, NSPS]	Y	
Part 11	No loading of products onto any vessel which has a maximum registered deadweight tonnage greater than 139,000 deadweight tons [Basis: Cumulative Increase]	Y	
Part 15	Ballasting into cargo tanks will not be allowed when air pollution emergency level is reached for ozone [Basis: Regulation 8-44-305]	Y	
Part 18	Submit report demonstrating compliance with permit conditions annually [Basis: Cumulative Increase]	Y	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar quarter [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 24901	**Permit Conditions**		
Part 3	Monitor fugitive components quarterly. [Basis: Regulation 8-33]	Y	
Part 4	100 ppm Leak detection repair and re-inspect requirements. [Basis: Regulation 2-1-403 and 2-5]	Y	
Part 5	500 ppm Leak detection repair and re-inspect requirements. [Basis: Regulation 2-1-403 and 2-5]	Y	
Part 6	Correlation testing of backpressure monitors. [Basis: Regulation 8-33]	Y	

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Table IV - C
Source-specific Applicable Requirements
S-22 – GASOLINE LOADING RACKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	Monthly log of monitoring results and leak repairs. [Basis: Regulation 8-33]	Y	

Table IV - D
Source-specific Applicable Requirements
S-23–OIL/WATER SEPARATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	**Organic Compounds - Wastewater (Oil-Water) Separators (9/15/2004)**		
8-8-301	Wastewater separators greater than 760 liter per day (200 gallons/day) and smaller than 18.9 liter per second (300 gallons/minute)	N	
8-8-301.1	Solid, vapor-tight, full contact fixed cover requirements	N	
8-8-303	Gauging and Sampling Devices requirements	N	
8-8-305	Oil/water Separator and/or Air Flotation Unit slop oil vessels	N	
8-8-305.1	Solid, gasketted, fixed cover, etc. requirements	N	
8-8-306	Oil/water Separator Effluent Channel, Pond, Trench, or Basin	N	
8-8-306.1	Solid, gasketted, fixed cover, etc. requirements	N	
8-8-308	Junction Box requirements	N	
8-8-501	Bypassed wastewater recordkeeping requirements	N	
8-8-503	Inspections and repairs recordkeeping requirements	N	
8-8-603	Inspection Procedures	N	
SIP Regulation 8, Rule 8	**Organic Compounds-Wastewater (Oil/water) Separators (8/29/1994)**		
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-301	Wastewater separators greater than 760 liters day and smaller than 18.9 liters per second	Y	
8-8-303	Gauging and sampling devices	Y	
8-8-305	Oil-water separator and/or air flotation unit slop oil vessels	Y	
8-8-501	API separator or air flotation bypassed wastewater records	Y	
8-8-503	Inspection and repair records	Y	
8-8-504	Portable hydrocarbon detector	Y	

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Table IV - D
Source-specific Applicable Requirements
S-23–OIL/WATER SEPARATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-603	Inspection procedures	Y	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM10 emission limitation [Basis: Cumulative Increase]	Y	
Part 9	Pumps and compressors subject to Regulation 8-18. Valves subject to Regulation 8-18. [Basis: Regulation 8-18]	Y	
Part 18 (A)	List of all sources in operation at the terminal throughput the year [Basis: Cumulative Increase]	Y	

Table IV – E
Source-specific Applicable Requirements
S-26–WATER STORAGE POND

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	**Organic Compounds - Wastewater (Oil-Water) Separators (9/15/2004)**		
8-8-303	Gauging and Sampling Devices requirements	N	
8-8-306	Oil/water Separator Effluent Channel, Pond, Trench, or Basin	N	
8-8-503	Inspections and repairs recordkeeping requirements	N	
8-8-601	Wastewater analysis for critical OCs	N	
8-8-603	Inspection Procedures	N	
SIP Regulation 8, Rule 8	**Organic Compounds-Wastewater (Oil/water) Separators ((8/29/1994)**		
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-303	Gauging and sampling devices	Y	
8-8-306	Oil-water separator effluent channel, pond, trench, or basin	Y	
8-8-503	Inspection and repair records	Y	
8-8-601	Wastewater analysis for critical OCs	Y	
8-8-603	Inspection procedures	Y	

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Table IV – E
Source-specific Applicable Requirements
S-26–WATER STORAGE POND

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM10 emission limitation [Basis: Cumulative Increase]	Y	
Part 9	Pumps and compressors subject to Regulation 8-18. Valves subject to Regulation 8-18. [Basis: Regulation 8-18]]	Y	
Part 18 (A)	List of all sources in operation at the terminal throughput the year [Basis: Cumulative Increase]	Y	

Table IV –F
Source-specific Applicable Requirements
S-27–MARINE VESSEL LOADING/UNLOADING TERMINAL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 44	**Organic Compounds-Marine Vessel Loading Terminals (12/7/2005)**		
8-44-110	Exemption: Small loading events	N	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-115	Exemption: Safety/Emergency Operations	N	
8-44-116	Limited Exemption, Equipment Leaks	N	
8-44-301	Limitations on Marine Tank Vessel Operations	N	
8-44-301.1	Loading a regulated organic with emission controlled as required by 8-44-304 or	N	
8-44-301.2	Loading of liquid into a cargo tank when prior tank was a regulated organic liquid with emission controlled as required by 8-4--304	N	
8-44-302	Limitations on Marine tank Vessel Ballasting	N	
8-44-302.1	Emissions are controlled according to 8-44-304 or	N	
8-44-302.2	Emissions are limited by used of combination of segregated ballast tanks	N	
8-44-303	Limitations on Marine tank Vessel Venting	N	

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Source-specific Applicable Requirements
S-27–MARINE VESSEL LOADING/UNLOADING TERMINAL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-303.1	Emissions are controlled according to 8-44-304 or	N	
8-44-303.2	Venting through PRV, or manual venting	N	
8-44-304	Emission Control Requirements	N	
8-44-304.1	Limit emission to 5.7 grms per cubic meter (2 lbs/1000 bbls) or emission control ≥ 95% wt.	N	
8-44-304.2	Emission control for loading, ballasting or venting operations	N	
8-44-305	Equipment Leaks	N	
8-44-305.1	All equipment associated with marine terminal operation shall not exceed 3 drop/min liquid leak or 1,000 ppm (methane) of gaseous leak	N	
8-44-305.2	Hatches, pressure relief valves, connections, gauging ports and vents exceed 3 drop/min liquid leak or 1,000 ppm (methane) of gaseous leak	N	
8-44-305.3	Inspection marine terminal equipment or vessels during the operation or prior to loading > 20% of the cargo	N	
8-44-305.4	Minimize, and tag any gas leak within 4 hours of discovery and repair prior to the next operation	N	
8-44-403	Notifications Regarding Safety/Emergency Exemption	N	
8-44-404	Notifications for Operations Conducted Other Than at Marine Terminals	N	
8-44-404.1	Name of the marine tank vessel	N	
8-44-404.2	The San Francisco Bay Area agent for the vessel	N	
8-44-404.3	The description of the operation	N	
8-44-404.4	The location of operation	N	
8-44-404.5	The type, amount or liquid loaded and the means used to comply with 8-44-301 when lightering	N	
8-44-404.6	The amount of ballasted water, prior cargo name and trade designation, the means used to comply with 8-44-302	N	
8-44-404.7	Tank cleaning, volume, prior cargo name and trade designation, the means used to clean each tank	N	
8-44-501	Record Keeping – Marine Terminals	N	
8-44-501.1.1	Name of vessel loaded	N	
8-44-501.1.2	Owner, country of registration, operator or charterer	N	
8-44-501.1.3	Arrival and departure Date	N	
8-44-501.1.4	Tank identification number, type and amount of organic liquid loaded	N	
8-44-501.1.5	Flashpoint and temperature of liquid loaded	N	
8-44-501.1.6	Prior cargo name and trade designation carried by the tank	N	

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S-27–MARINE VESSEL LOADING/UNLOADING TERMINAL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-501.1.7	Source and copy of document or analysis of flashpoint	N	
8-44-501.1.8	Condition of tank prior to being loaded	N	
8-44-501.1.9	Mean used to comply with 8-44-304	N	
8-44-501.1.10	Date, Time, identification of liquid or gas leak in access of 8-44-305.1	N	
8-44-501.2	Record for the following when ballasting	N	
8-44-501.2.1	Information requested in Section 8-44-501.1.1 through 501.1.3	N	
8-44-501.2.2	Identification number, and amount of ballasted water	N	
8-44-501.2.3	Prior cargo name and trade designation	N	
8-44-501.2.4	The means used to comply with 8-44-302	N	
8-44-501.2.5	Date and time of inspections, identification of equipment leak	N	
8-44-501.3	Record for the following when venting	N	
8-44-501.3.1	Information requested in Section 8-44-501.1.1 through 501.1.3	N	
8-44-501.3.2	Identification number, and prior cargo name and trade designation	N	
8-44-501.3.3	Activities leading to venting	N	
8-44-501.3.4	The means used to comply with 8-44-303	N	
8-44-501.3.5	Date and time of inspections, identification of equipment leak	N	
8-44-502	Record Keeping - Marine Tank Vessels	N	
8-44-502.1.1	Name of vessel loaded	N	
8-44-502.1.2	Owner, country of registration, operator or charterer	N	
8-44-502.1.3	Beginning and ending dates and times	N	
8-44-502.1.4	Tank identification number, type and amount of organic liquid loaded	N	
8-44-502.1.5	The prior cargo name and trade	N	
8-44-502.1.6	Condition of each tank prior to being loaded	N	
8-44-502.1.7	Mean used to comply with 8-44-301	N	
8-44-502.1.8	Date and time of inspections, identification of equipment leak	N	
8-44-502.2	Record for the following when ballasting	N	
8-44-502.2.1	Name of vessel	N	
8-44-502.2.2	Owner, country of registration, operator or charterer	N	
8-44-502.2.3	Beginning and ending dates and times	N	
8-44-502.2.4	Location of operation	N	
8-44-502.2.5	Amount of ballasted water and prior cargo name and trade designation	N	
8-44-502.2.6	The means used to comply with Section 8-44-302	N	
8-44-502.2.7	Date and time of inspections, identification of equipment leak	N	
8-44-502.3	Record for the following when venting	N	

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Table IV –F
Source-specific Applicable Requirements
S-27–MARINE VESSEL LOADING/UNLOADING TERMINAL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-502.3.1	Name of vessel	N	
8-44-502.3.2	Owner, country of registration, operator or charterer	N	
8-44-502.3.3	Description of venting process	N	
8-44-502.3.4	Beginning and ending dates and times	N	
8-44-502.3.5	Location of operation	N	
8-44-502.3.6	The prior cargo name and trade	N	
8-44-502.3.7	The means used to comply with Section 8-44-303	N	
8-44-502.3.8	Date and time of inspections, identification of equipment leak	N	
8-44-502.4	Cleaning operation	N	
8-44-502.4.1	Name of vessel	N	
8-44-502.4.2	Owner, country of registration, operator or charterer	N	
8-44-502.4.3	Beginning and ending dates and times	N	
8-44-502.4.4	Location of operation	N	
8-44-502.4.5	Number, volume, prior cargo name and trade designation and description of method used to clean tank	N	
8-44-503	Recordkeeping - Exemptions	N	
8-44-503.1	For Section 8-44-110, the date, names of loading and receiving vessels, location, type of material loaded and volume loaded	N	
8-44-503.2	For Section 8-44-111, the date, names of loading and receiving vessels, location, type of material loaded and volume loaded	N	
8-44-503.3	For Section 8-44-115, the date, names of vessels, location and description of operation	N	
8-44-504	Burden of Proof	N	
SIP BAAQMD Regulation 8, Rule 44	**Organic Compounds-Marine Vessel Loading Terminals (8/30/1993)**		
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lbs per 1000 bbls) of organic liquid loaded, or	Y	
8-44-301.2	95% by weight from uncontrolled conditions	Y	
8-44-302	Emission control equipment	Y	
8-44-303	Operating practice	Y	

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Table IV –F
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S-27–MARINE VESSEL LOADING/UNLOADING TERMINAL

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-44-304.1	Certified leak free, gas tight and in good working vessel	Y	
8-44-304.2	Loading ceases any time gas or leaks are discovered	Y	
8-44-305	Ozone excess day prohibition	Y	
8-44-402.1	Safety/Emergency operations	Y	
8-44-402.2	Safety/Emergency operations	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	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants for Source Categories**	Y	
Subpart A	**General Provisions**	**Y**	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting	Y	
63.12	State authority and delegations	Y	
40 CFR 63 Subpart Y	**National Emission Standards for Marine Tank Vessel Loading Operations**	**Y**	
63.560(b)	Reasonable available control technology (RACT)	Y	
63.560(b)(1)	Sources with throughput of 10 million barrels or 200 million barrels	Y	
63.560(c)	General provisions applicability	Y	
63.560(d)(7)	Do not apply to ballasting operations	Y	

IV. Source-specific Applicable Requirements

Table IV –F
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.560(e)	Compliance dates		
63.560(e)(2)(i)	RACT compliance dates for sources with an initial startup date on or before September 21, 1998	Y	
63.560(e)(2)(ii)	RACT compliance dates	Y	
63.560(e)(2)(v)	Extension of compliance date	Y	
63.562(a)	Emission limitations	Y	
63.562(c)(1)	RACT standards	Y	
63.562(c)(2)(i)	Vapor collection system of the terminal	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: 95 % weight when using recovery device	Y	
63.562(c)(4)	Or 1,000 ppmv outlet VOC concentration	Y	
63.562(c)(5)	Prevention of carbon adsorber emissions during regeneration	Y	
63.562(c)(6)	Maintenance allowance for loading berths	Y	
63.562(c)(6)(i)	Maintenance	Y	
63.562(b)(6)(ii)	Conditions beyond reasonable control	Y	
63.562(c)(6)(iii)	Hardship cannot be justified by the resulting air quality benefit	Y	
63.562(c)(6)(iv)	Curtailing marine vessel loading operations during maintenance	Y	
63.562(c)(6)(v)	Reduce emissions from other loading berths	Y	
63.562(c)(6)(vi)	Monitoring and reporting emissions from the loading berth	Y	
63.562(e)	Operation & maintenance requirements for air pollution control equipment	Y	
63.562(e)(1)	Determine compliance with design, equipment, work practice or operational emission standards	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.562(e)(2)	Develop and implement a written operation and maintenance plan	Y	
63.562(e)(2)(i)	Procedures of preventive maintenance	Y	
63.562(e)(2)(ii)	Identify, monitor and record all operating parameters	Y	
63.562(e)(2)(iii)	Inspection schedule	Y	
63.562(e)(2)(iv)	Continuous monitoring system (CMS) quality control program	Y	
63.562(e)(3)	Revision of the operation and maintenance plan if does not address:	Y	
63.562(e)(3)(I)	Variance of the control equipment	Y	
63.562(e)(3)(ii)	Fail to provide safety and good air pollution control practices	Y	
63.562(e)(3)(iii)	Inadequate procedures for correcting a variance	Y	
63.562(e)(4)	Revise the operation maintenance plane within 45 working days after variance has occurred	Y	
63.562(e)(5)	Keep the written operation and maintenance plan on record for inspection	Y	
63.562(e)(6)	Source's standard operating procedures (SOP) manual, Occupational safety and health administration (OSHA) plan and others are satisfied	Y	
63.563	Compliance and performance testing	Y	
63.563(a)(1)(i)	Vent stream by-pass requirements for the terminal's vapor collection system	Y	
63.563(a)(1)(ii)	Repairs	Y	
63.563(a)(2)	Ship-to-shore compatibility	Y	
63.563(a)(3)	Pressure/vacuum settings for the marine vessel's vapor collection equipment	Y	
63.563(a)(4)	Vapor tightness requirements	Y	
63.563(a)(4)(i)	Pressure test documentation	Y	
63.563(a)(4)(ii)	Leak test documentation	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.563(a)(4)(iii)	Leak test performance	Y	
63.563(a)(4)(iii)(A)	No leak documentation	Y	
63.563(a)(4)(iii)(B)	Leak process	Y	
63.563(a)(4)(iv)	Negative pressure loading	Y	
63.563(b)	Compliance determination	Y	
63.563(b)(1)	Initial performance	Y	
63.563(b)(2)	Performance test exemptions	Y	
63.563(b)(2)(i)	Boilers or process heater with 44 megawatt or less comply with 63.562b(2), (3), or (4), c(3) or (4) or d(2)	Y	
63.563(b)(2)(ii)	Boilers or process heater 44 megawatt or more comply with 63.562b(2), (3), or (4), c(3) or (4) or d(2)	Y	
63.563(b)(2)(iii)	Boilers subject to 40 CFR part 266, subpart H comply with 63.562b(2), (3), or (4), c(3) or (4) or d(2)	Y	
63.563(b)(3)	Operation and maintenance inspections	Y	
63.563(b)(6)	Carbon Adsorber	Y	
63.563(b)(6)(i)	Compliance determination	Y	
63.563(b)(6)(ii)	Baseline parameters	Y	
63.563(b)(6)(ii)(A)	Outlet VOC concentration limit	Y	
63.563(b)(6)(ii)(B)	Carbon adsorbers with vacuum regeneration	Y	
63.563(b)(6)(iii)	Outlet VOC concentration of 1000 ppmv	Y	
63.563(b)(7)(i)	VOC outlet concentration limit for required percent efficiency	Y	
63.563(b)(7)(ii)	Baseline temperature for required percent recovery efficiency or	Y	
63.563(b)(7)(iii)	Baseline parameters for 1000 ppmv VOC concentration limit for gasoline loading	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.563(b)(10)	Emission estimation	Y	
63.563(c)	Leak detection and repair for vapor collection systems and control devices	Y	
63.563(c)(1)	Annual leak detection and repair	Y	
63.563(c)(2)	Ongoing leak detection	Y	
63.563(c)(3)	Repair within 15 days	Y	
63.564	Monitoring requirements		
63.564(a)(1)	Comply with monitoring requirement	Y	
63.564(a)(2)	Monitor equipment verification	Y	
63.564(a)(3)	Continuous operation	Y	
63.564(a)(4)	CMS comply with performance specification	Y	
63.564(a)(5)	Submit all information concerning out of control periods	Y	
63.564(b)	Vapor collection system of terminal	Y	
63.564(b)(1)	Measure and record vent stream flowrate	Y	
63.564(b)(2)	Flow indicator	Y	
63.564(b)(3)	Visual inspection	Y	
63.564(c)	Pressure/vacuum settings	Y	
63.564(d)	Loading at negative pressure	Y	
63.564(g)	Carbon adsorber	Y	
63.564(g)(1)	Outlet VOC concentration	Y	
63.564(g)(2)	Carbon adsorbers with vacuum regeneration	Y	
63.565(a)	Performance testing	Y	
63.565(b)	Pressure/vacuum se4ttings of marine tank vessel's vapor collection equipment	Y	
63.565(b)(1)	Calibrate and install a pressure measurement device	Y	
63.565(b)(2)	Connect the pressure measurement device to a pressure tap in the terminal's vapor collection system	Y	
63.565(b)(3)	Record the pressure	Y	
63.565(c)	Vapor tightness test procedures for the marine tank vessel	Y	
63.565(c)(1)	Pressure test	Y	
63.565(c)(1)(i)	Product tank shall be pressurized with dry air or inert gas	Y	
63.565(c)(1)(ii)	Once the pressure is obtained, dry air or inert gas source shall be shut off	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.565(c)(1)(iii)	Measure the pressure	Y	
63.565(c)(1)(iv)	Compare the pressure	Y	
63.565(c)(1)(v)	Vessel is vapor tight	Y	
63.565(c)(1)(vi)	Or not vapor tight	Y	
63.565(c)(2)	Leak test	Y	
63.565(f)(1)	Baseline temperature from performance testing	Y	
63.565(f)(2)	Baseline temperature from manufacturer	Y	
63.565(g)	Baseline outlet VOC concentration	Y	
63.565(h)(1)	Baseline regeneration time from performance testing	Y	
63.565(h)(2)	Baseline regeneration time from manufacturer recommendation	Y	
63.565(i)	Baseline vacuum pressure for carbon bed regeneration	Y	
63.565(k)(1)	Baseline L/V ratio from performance test	Y	
63.565(k)(2)	Baseline L/V ratio from manufacturer	Y	
63.565(l)	Emission estimation procedures	Y	
63.565(m)(1)	Alternate test procedures	Y	
63.565(m)(2)	Administrator approval	Y	
63.566(a)	Construction and reconstruction	Y	
63.566(b)(1)	Application for approval of construction or reconstruction	Y	
63.566(b)(2)	General application requirements	Y	
63.566(c)	Approval of construction or reconstruction	Y	
63.567(a)	Recordkeeping and reporting	Y	
63.567(a)(1)(i)	Submittals sent by U.S. mail	Y	
63.567(a)(1)(ii)	Submittals sent by other methods	Y	
63.567(b)	Notification requirements	Y	
63.567(b)(1)	Applicability	Y	
63.567(b)(2)	Initial notification for sources with startup before the effective date	Y	
63.567(b)(2)(i)	Name and address	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.567(b)(2)(ii)	Address of the sources	Y	
63.567(b)(2)(iii)	Identification of emission standard	Y	
63.567(b)(2)(iv)	Brief description of the nature, size, design and method	Y	
63.567(b)(2)(v)	Statement that the source is a major source	Y	
63.567(b)(3)	Initial notification for sources with startup after the effective date	Y	
63.567(b)(4)	Initial notification requirements for constructed/reconstructed sources	Y	
63.567(b)(4)(i)	Notification in writing	Y	
63.567(b)(4)(ii)	Submit a notification of the date when construction or reconstruction was commenced	Y	
63.567(b)(4)(iii)	Submit a notification of the anticipated date of startup	Y	
63.567(b)(4)(iv)	Submit a notification of the actual date of startup	Y	
63.567(b)(5)(i)	Additional initial notification requirements	Y	
63.567(b)(5)(ii)	Alternate to reporting the information	Y	
63.567(c)	Request for extension of compliance	Y	
63.567(e)(1)	Schedule for summary reports and excess emission and monitoring system performance reports	Y	
63.567(e)(2)	Request to reduce frequency of excess emissions and continuous monitoring system performance reports	Y	
63.567(e)(2)(i)	Compliance for one full year	Y	
63.567(e)(2)(ii)	Continuous compliance with all recordkeeping and monitoring requirements	Y	
63.567(e)(3)	Notify administrator in writing for the frequency of reporting of excess emissions	Y	
63.567(e)(4)	Content and submittal dates for excess emissions and monitoring system performance reports	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.567(e)(5)	Summary report	Y	
63.567(e)(6)	Summary reports	Y	
63.567(f)	Vapor collection system of the terminal	Y	
63.567(g)	Vent system	Y	
63.567(g)(1)	Record of flow bypassing	Y	
63.567(g)(2)	Record of car-seal maintenance	Y	
63.567(h)	Vapor-tightness documentation	Y	
63.567(I)	Vapor-tightness test documentation for marine tank vessels	Y	
63.567(i)(1)	Test title	Y	
63.567(i)(2)	Marine vessel owner and address	Y	
63.567(i)(3)	Marine vessel identification number	Y	
63.567(i)(4)	Loading time	Y	
63.567(i)(5)	Testing location	Y	
63.567(i)(6)	Date of test	Y	
63.567(i)(7)	Tester name and signature	Y	
63.567(i)(8)	Test results	Y	
63.567(i)(9)	Documentation	Y	
63.567(i)(10)	Documentation on leak repaired	Y	
63.567(j)	Emission estimation reporting and recordkeeping procedures	Y	
63.567(j)(1)	Record of all measurements, calculations	Y	
63.567(j)(2)	Records of emission estimation	Y	
63.567(j)(3)	Submit annual report of the sources' HAP control efficiency	Y	
63.567(j)(4)	Record of throughput for 5 years	Y	
63.567(k)	Leak detection and repair of vapor collection systems and control device	Y	
63.567(k)(1)	Date of inspection	Y	
63.567(k)(2)	Findings (location, nature and severity of each leak)	Y	
63.567(k)(3)	Leak determination method	Y	
63.567(k)(4)	Corrective action	Y	
63.567(k)(5)	Inspector name and signature	Y	
40 CFR 64	**Compliance Assurance Monitoring (10/22/1997)**	Y	
64.2(a)	Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	Y	
64.3(a)(1)	Data for one or more indicators	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
64.3(a)(2)	Indicator range	Y	
64.3(a)(3)	Design of indicator ranges	Y	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Specifications for obtaining data	Y	
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency, procedures, and averaging periods	Y	
64.3(b)(4)(i)	Design of period over which data are obtained, etc.	Y	
64.3(b)(4)(iii)	Frequency for other pollutant-specific emission units	Y	
64.3(c)	Evaluation factors	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submittal of monitoring that satisfies design requirements in 40 CFR 63.4	Y	
64.4(b)	Justification for the proposed monitoring	Y	
64.4(b)(1)	Presumptively acceptable monitoring approaches	Y	
64.4(c)(1)	Submittal of control device operating parameter data obtained during tests	Y	
64.4(c)(2)	Documentation of no changes to system after performance tests	Y	
64.5(b)	Deadline for submittals for other pollutant-specific emissions units	Y	
64.5(d)	Prior to approval, emissions unit subject to 40 CFR 70.1(a)(3)(i)(B)	Y	
64.6(a)	Approval by permitting authority	Y	
64.6(b)	Additional data collection	Y	
64.6(c)	Establishment of permit terms or conditions	Y	
64.6(d)	Installation, testing or final verification	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
64.10	Savings provisions	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 6185	**Permit Conditions**		
Part 4	Total hydrocarbon liquid loaded shall not exceed 47.6 million barrels per year [Basis: Cumulative Increase]	Y	
Part 4a	Total combined POC/NPOC emissions shall not exceed 47,600 pounds in any consecutive 12-month period and 10 pounds per hour, and use of additional materials does not increase toxic emissions above any Regulation 2-5 triggers [Basis: Cumulative Increase; Toxics]	Y	
Part 5	A-421 and A-222 shall not exceed 1 pound of POCs per 1000 barrels [Basis: Cumulative Increase]	Y	
Part 12	Minimize fugitive leaks during connection and disconnection [Basis: Regulation 8-18]	Y	
Part 14	Regenerative carbon system shall install an infrared combustible gas detector or District approved equivalent at the outlet of theses carbon units [Basis: NSPS]	Y	
Part 15	Regenerative carbon system shall include a continuous temperature monitor and recorder to measure the temperature of each of the four carbon beds [Basis: NSPS]	Y	
Part 25	Total pumping rate shall not exceed 10,000 barrels per hour [Basis: Cumulative Increase]	Y	
Part 26	Only specified material can be transferred [Basis: Cumulative Increase]	Y	
Part 27	Annual source testing [Basis: 40 CFR 63, 63.563(b)6)]	Y	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 2	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 11	Loading deadweight limitation [Basis: Cumulative Increase]	Y	
Part 12	No marine vessel calling if emission is greater than 2000 ppmv of SO2 [Basis: Regulation 9-1-303]	Y	
Part 13	No marine vessel calling [Basis: Cumulative Increase]	Y	
Part 14	Event of spill [Basis: Regulation 8-5]	Y	
Part 15	Ballasting into cargo tanks will not be allowed when air pollution emergency level is reached for ozone [Basis: Regulation 8-44-305]	Y	

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Part 16	Violation of regulation or other requirement of U.S. Coast Guard [Basis: Regulation 8-44-402]	Y	
Part 18	Annual report [Basis: Cumulative Increase]	Y	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar quarter [Basis: Cumulative Increase]	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-Storage of Organic Liquids (10/18/2006)**		
8-5-101	Description	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-112	Limited Exemption, Tanks in Operation	N	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tanks Control Requirements	N	
8-5-302	Requirements for Submerged Fill Pipes	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	No degassing during ozone excess	Y	
8-5-328.3	Notification requirements	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	N	
8-5-404	Inspection, Abatement Efficiency Determination and Source Test Reports	N	
8-5-501	Recordkeeping Requirements	N	
8-5-502	Source test requirement	Y	
8-5-605	Measurement of Leak Concentrations and Residual Concentrations	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 8, Rule 5	**Organic Compounds-Storage of Organic Liquids (06/05/2003)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-301	Storage Tanks Control Requirements	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-306	Requirements for Approved Emission Control System	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after degassing	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Keep records	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-605	Pressure-Vacuum Valve Gas Tight Determination	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	**Y**	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.4(b)	Reports to EPA and District	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	Y	
60.14	Modification	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS Part 60 Subpart Kb	**Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984**	Y	
60.110b(a)	Tanks greater than or equal to 40 cubic meters	Y	
60.112b(a) (3)	A closed vent system and control device	Y	
60.112b(a) (3)(i)	The closed vent system that collects all VOC vapors and gases discharged	Y	
60.112b(a) (3)(ii)	The control device that reduces inlet VOC emissions by 95 percent or greater	Y	
60.113b	Testing and Procedures		
60.113b(c)	Exempt from § 60.8 of the General Provisions	Y	
60.113b(c) (1)	Submit for approval by the Administrator	Y	
60.113b(c) (1)(i)	Documentation demonstrating that the control device will achieve the required control efficiency during maximum loading conditions	Y	
60.113b(c) (1)(ii)	A description of the parameter or parameters to be monitored	Y	
60.113b(c) (2)	Operate and monitor the parameters of the closed vent system and control device	Y	
60.115b	Reporting and recordkeeping requirements	Y	
60.115b(a)	After installing control equipment	Y	
60.115b(a) (1)	Furnish the Administrator with a report	Y	
60.115b(a) (2)	Keep a record of each inspection performed	Y	
60.115b(a) (3)	Report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied	Y	
60.115(c)	Records	Y	
60.115(c)(1)	Operating plan	Y	
60.115(c)(2)	Parameters monitored	Y	
60.116b	Monitoring of Operation	Y	
60.116b(a)	The owner or operator shall keep copies of all records	Y	
60.116b(b)	Accessible records	Y	

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S-32, S-33, S-34, S-35, S-36, S-37, ~~S-38,~~ S-39, ~~S-40,~~ S-41~~, S-42, S-43, S-44~~ – FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.116b(c)	Record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period	Y	
60.116b(d)	Maximum true vapor pressure	Y	
60.116b(e)	Available data on the storage temperature may be used to determine the maximum true vapor pressure	Y	
60.116b(e) (1)	The maximum true vapor pressure calculation	Y	
60.116b(e) (2)	Vapor pressure for crude oil or refined petroleum products	Y	
60.116b(e) (2)(i)	Reid vapor pressure and the maximum expected storage temperature	Y	
60.116b(e) (2)(ii)	The true vapor pressure	Y	
60.116b(e) (3)	For other liquids, the vapor pressure	Y	
60.116b(e) (3)(i)	May be obtained from standard reference texts	Y	
60.116b(e) (3)(ii)	Determined by ASTM Method D2879–83	Y	
60.116b(e) (3)(iii)	Measured by an appropriate method approved by the Administrator	Y	
60.116b(e) (3)(iv)	Calculated by an appropriate method approved by the Administrator	Y	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants For Source Categories**	Y	
Subpart A	**General Provisions**	**Y**	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting	Y	
63.12	State authority and delegations	Y	
63.13	Addresses of EPA Regional Offices	Y	

IV. Source-specific Applicable Requirements

Table IV – G
Source-specific Applicable Requirements
S-32, S-33, S-34, S-35, S-36, S-37, ~~S-38,~~ S-39, ~~S-40,~~ S-41~~, S-42, S-43, S-44~~ – FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.14	Incorporation by Reference	Y	
63.15	Availability of Information and confidentiality	Y	
40 CFR Part 63 Subpart R	**National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/14/1994)**	**Y**	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subject to the provisions of 40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.423	Standards: Storage vessels	Y	
63.423(a)	Requirements	Y	
63.423(c)	December 15, 1997 deadline	Y	
63.425	Test methods and procedures	Y	
63.425(a)	Performance test on the vapor processing system	Y	
63.425(b)	Operating parameter	Y	
63.425(b)(1)	Determine an operating parameter value	Y	
63.425(b)(2)	Determine an operating monitoring parameter value	Y	
63.425(b)(3)	Demonstrate continuous compliance	Y	
63.425(c)	Document the reasons for any change in the operating parameter	Y	
63.425(d)	Compliance with § 60.113b	Y	
63.427	Continuous monitoring	Y	
63.427(a)(1)	Continuous emission monitoring system (CEMS)	Y	
63.427(a)(5)	Alternative parameter demonstrates continuous compliance	Y	
63.427(b)	Operate the vapor processing system	Y	
63.427(c)	Monitoring requirements in § 60.116b; 5 years records	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notifications	Y	
63.428(c)(2)	Record and report simultaneously with the notification of compliance	Y	
63.428(c)(2)(i)	Determining the operating parameter value	Y	
63.428(d)	Keep records and furnish reports	Y	
63.428(h)	Submit an excess emissions report to the administrator	Y	
63.428(h)(1)	Each exceedance or failure reports	Y	
63.428(h)(4)	Equipment leak	Y	

IV. Source-specific Applicable Requirements

Table IV – G
Source-specific Applicable Requirements
S-32, S-33, S-34, S-35, S-36, S-37, ~~S-38,~~ S-39, ~~S-40,~~ S-41~~, S-42, S-43, S-44~~ – FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.428(h)(4)(i)	The date on which the leak was detected	Y	
63.428(h)(4)(ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4)(iii)	The reasons for the delay of repair; and	Y	
63.428(h)(4)(iv)	The date of successful repair	Y	
40 CFR 64	**Compliance Assurance Monitoring (10/22/1997)**	Y	
64.2(a)	Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	Y	
64.3(a)(1)	Data for one or more indicators	Y	
64.3(a)(2)	Indicator range	Y	
64.3(a)(3)	Design of indicator ranges	Y	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Specifications for obtaining data	Y	
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency, procedures, and averaging periods	Y	
64.3(b)(4)(i)	Design of period over which data are obtained, etc.	Y	
64.3(b)(4)(iii)	Frequency for other pollutant-specific emission units	Y	
64.3(c)	Evaluation factors	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submittal of monitoring that satisfies design requirements in 40 CFR 63.4	Y	
64.4(b)	Justification for the proposed monitoring	Y	
64.4(b)(1)	Presumptively acceptable monitoring approaches	Y	
64.4(c)(1)	Submittal of control device operating parameter data obtained during tests	Y	
64.4(c)(2)	Documentation of no changes to system after performance tests	Y	
64.5(b)	Deadline for submittals for other pollutant-specific emissions units	Y	
64.5(d)	Prior to approval, emissions unit subject to 40 CFR 70.1(a)(3)(i)(B)	Y	
64.6(a)	Approval by permitting authority	Y	
64.6(b)	Additional data collection	Y	
64.6(c)	Establishment of permit terms or conditions	Y	

IV. Source-specific Applicable Requirements

Table IV – G
Source-specific Applicable Requirements
S-32, S-33, S-34, S-35, S-36, S-37, ~~S-38,~~ S-39, ~~S-40,~~ S-41~~, S-42, S-43, S-44~~ – FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
64.6(d)	Installation, testing or final verification	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
64.10	Savings provisions	Y	
BAAQMD Condition #6185	**Permit Conditions**		
Part 1	Emissions from tanks shall be vented to A-421 and A-422, regenerative carbon units all times [Basis: Cumulative Increase]	Y	
Part 2	Hydrocarbon liquids loaded shall not exceed 18.8 million barrels in any consecutive 12-month period [Basis: Cumulative Increase]	Y	
Part 2a	Total combined POC/NPOC emissions shall not exceed 18,800 pounds in any consecutive 12-month period and use of additional materials does not increase toxic emissions above any Regulation 2-5 triggers [Basis: Cumulative Increase; Toxics]	Y	
Part 3	Hydrocarbon liquids loaded shall not exceed 250,000 barrels in any day [Basis: Cumulative Increase]	Y	
Part 3a	Total combined POC/NPOC emissions shall not exceed 250 pounds in any calendar day and use of additional materials does not increase toxic emissions above any Regulation 2-5 triggers [Basis: Cumulative Increase; Toxics]	Y	
Part 5	Emissions from A-421 and A-422 regenerative carbon unit shall not exceed 1 pound of POC per 1000 barrels [Basis: Cumulative Increase]	Y	
Part 6	Benzene emissions from A-421 and A-422 shall not exceed 0.15 pounds per day [Basis: Toxics]	N	
Part 7	The average benzene concentration in all hydrocarbon liquids stored shall not exceed 2% by weight [Basis: Toxics]	N	

IV. Source-specific Applicable Requirements

Table IV – G
Source-specific Applicable Requirements
S-32, S-33, S-34, S-35, S-36, S-37, ~~S-38,~~ S-39, ~~S-40,~~ S-41~~, S-42, S-43, S-44~~ – FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 12	Tanks shall be equipped with properly installed and operated pressure relief valves [Basis: Regulation 8-18]	N	
Part 14	Regenerative carbon system shall install an infrared combustible gas detector or District approved equivalent at the outlet of theses carbon units [Basis: NSPS]	Y	
Part 15	Regenerative carbon system shall include a continuous temperature monitor and recorder to measure the temperature of each of the four carbon beds [Basis: NSPS]	Y	
Part 16	6 tank degassing operations in any consecutive 12-month period [Basis: Cumulative Increase]	Y	
Part 17	Tank degassing shall be vented at all times to abatement devices [Basis: Regulation 8-5]	Y	
Part 19	Minimize fugitive emissions during tank cleaning operation [Basis: Cumulative Increase]	Y	
Part 20	The storage tank vapors shall be vented to A-421 and A-422 to reduce POC concentration in the vapor stream to less than 1% vol or 10,000 ppm [Basis: Cumulative Increase]	Y	
Part 22	A-421 and A-422 shall be equipped with continuous hydrocarbon concentration monitor and recorder which measures the outlet concentration [Basis: NSPS]	Y	
Part 23	No tank degassing during bulk liquid transfers, which abated by A-421 and A-422 devices [Basis: Cumulative Increase]	Y	
Part 24	Record keeping for tank degassing operations [Basis: Record Keeping]	Y	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 18	Submit report demonstrating compliance with permit conditions annually [Basis: Cumulative Increase]	Y	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar quarter [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	Organic Compounds-Storage of Organic Liquids (11/3/2021)		
8-5-101	Description	Y	
8-5-111	Limited Exemption, Tank Removal From and Return to Service	N	
8-5-112	Limited Exemption, Tanks in Operation	N	
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-301	Storage Tanks Control Requirements	N	
8-5-305	Requirements for Internal Floating Roof Tanks	N	
8-5-320	Tank Fitting requirements	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.3	Gasketed Covers	Y	
8-5-320.4	Solid sampling or gauging wells	Y	
8-5-320.4.1	The well shall provide a projection below the liquid surface	Y	
8-5-320.4.2	The well shall be equipped with a cover	Y	
8-5-320.4.3	The gap between the well and the roof	Y	
8-5-320.5	Slotted sampling or gauging wells	Y	
8-5-320.5.1	The well shall provide a projection below the liquid surface	Y	
8-5-320.5.2	The well requirements	Y	
8-5-320.5.3	The gap between the well and the roof	Y	
8-5-320.6	Emergency roof drain	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	No holes, tears, or other openings in the primary seal fabric	Y	
8-5-321.2	The seal shall be liquid mounted except as provided in 8-5-311.2.2	Y	
8-5-321.3	Metallic shoe type seals	Y	
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	No holes, tears, or other openings in the secondary seal	Y	
8-5-322.2	Insertion of probes	Y	
8-5-322.3	Gaps for welded tanks	Y	

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S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-322.5	For welded internal floating roof tank with seal installed after February 1, 1993, no gap between tank shell and the secondary seal shall exceed 1.5 mm (0.06 in.). The cumulative length of all secondary seal gaps exceeding 0.5 mm (0.02 in.) shall be not more than 5% of the circumference of the tank excluding gaps less than 5 cm (1.79 in.) from vertical weld seams.	Y	
8-5-322.6	The secondary seal shall extend from the roof to the tank shell and shall not be attached to the primary seal.	Y	
8-5-328	Tank degassing requirements	N	
8-5-328.1	Concentration of <10,000 ppm as methane after cleaning	Y	
8-5-328.2	No degassing during ozone excess	Y	
8-5-328.3	Notification requirements	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	N	
8-5-402.1	Inspection of primary and secondary seal per 8-5-321 and 8-5-322 once every 10 years	N	
8-5-402.2	Inspection of entire circumference of outermost seal per 8-5-305.1, 8-5-305.2, 8-5-305.3, 8-5-321.1 and 8-5-322.1 twice per calendar year	N	
8-5-402.3	Tank Fitting Inspection twice per calendar year	N	
8-5-501	Recordkeeping Requirements	N	
8-5-502	Source test requirement	Y	
8-5-605	Measurement of Leak Concentrations and Residual Concentrations	N	
8-5-606	Analysis of Samples, Tank Cleaning Agents	N	
SIP Regulation 8, Rule 5	**Organic Compounds-Storage of Organic Liquids (06/05/2003)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation	Y	
8-5-301	Storage Tanks Control Requirements	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-305	Requirements for Internal Floating Roofs	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1.2	Concentration of <10,000 ppm as methane after degassing	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.1	Primary and Secondary Seals Inspection twice per calendar year	Y	
8-5-401.2	Tank Fitting Inspection twice per calendar year	Y	
8-5-501	Keep records	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	**General Provisions**	**Y**	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.4(b)	Reports to EPA and District	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
60.19	General notification and reporting requirements	Y	
NSPS Part 60 Subpart Kb	**Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984**	Y	
60.110b(a)	Tanks greater than or equal to 40 cubic meters	Y	
60.112b(a)(3)	A closed vent system and control device	Y	
60.112b(a)(3)(i)	The closed vent system that collects all VOC vapors and gases discharged	Y	
60.112b(a)(3)(ii)	The control device that reduces inlet VOC emissions by 95 percent or greater	Y	
60.113b	Testing and Procedures		
60.113b(c)	Exempt from § 60.8 of the General Provisions	Y	
60.113b(c) (1)	Submit for approval by the Administrator	Y	

IV. Source-specific Applicable Requirements

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Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.113b(c)(1)(i)	Documentation demonstrating that the control device will achieve the required control efficiency during maximum loading conditions	Y	
60.113b(c)(1)(ii)	A description of the parameter or parameters to be monitored	Y	
60.113b(c) (2)	Operate and monitor the parameters of the closed vent system and control device	Y	
60.115b	Reporting and recordkeeping requirements	Y	
60.115b(a)	After installing control equipment	Y	
60.115b(a) (1)	Furnish the Administrator with a report	Y	
60.115b(a) (2)	Keep a record of each inspection performed	Y	
60.115b(a) (3)	Report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied	Y	
60.115(c)	Records	Y	
60.115(c)(1)	Operating plan	Y	
60.115(c)(2)	Parameters monitored	Y	
60.116b	Monitoring of Operation	Y	
60.116b(a)	The owner or operator shall keep copies of all records	Y	
60.116b(b)	Accessible records	Y	
60.116b(c)	Record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period	Y	
60.116b(d)	Maximum true vapor pressure	Y	
60.116b(e)	Available data on the storage temperature may be used to determine the maximum true vapor pressure	Y	
60.116b(e) (1)	The maximum true vapor pressure calculation	Y	
60.116b(e) (2)	Vapor pressure for crude oil or refined petroleum products	Y	
60.116b(e)(2)(i)	Reid vapor pressure and the maximum expected storage temperature	Y	
60.116b(e)(2)(ii)	The true vapor pressure	Y	
60.116b(e) (3)	For other liquids, the vapor pressure	Y	
60.116b(e)(3)(i)	May be obtained from standard reference texts	Y	
60.116b(e)(3)(ii)	Determined by ASTM Method D2879–83	Y	
60.116b(e)(3)(iii)	Measured by an appropriate method approved by the Administrator	Y	

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Table IV – H
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.116b(e)(3)(iv)	Calculated by an appropriate method approved by the Administrator	Y	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants For Source Categories**	Y	
Subpart A	**General Provisions**	**Y**	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting	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	
40 CFR Part 63 Subpart R	**National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/14/1994)**	**Y**	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subject to the provisions of 40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.423	Standards: Storage vessels	Y	
63.423(a)	Requirements	Y	
63.423(c)	December 15, 1997 deadline	Y	
63.425	Test methods and procedures	Y	
63.425(a)	Performance test on the vapor processing system	Y	
63.425(b)	Operating parameter	Y	
63.425(b)(1)	Determine an operating parameter value	Y	
63.425(b)(2)	Determine an operating monitoring parameter value	Y	
63.425(b)(3)	Demonstrate continuous compliance	Y	

IV. Source-specific Applicable Requirements

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.425(c)	Document the reasons for any change in the operating parameter	Y	
63.425(d)	Compliance with § 60.113b	Y	
63.427	Continuous monitoring	Y	
63.427(a)(1)	Continuous emission monitoring system (CEMS)	Y	
63.427(a)(5)	Alternative parameter demonstrates continuous compliance	Y	
63.427(b)	Operate the vapor processing system	Y	
63.427(c)	Monitoring requirements in § 60.116b; 5 years records	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notifications	Y	
63.428(c)(2)	Record and report simultaneously with the notification of compliance	Y	
63.428(c)(2)(i)	Determining the operating parameter value	Y	
63.428(d)	Keep records and furnish reports	Y	
63.428(h)	Submit an excess emissions report to the administrator	Y	
63.428(h)(1)	Each exceedance or failure reports	Y	
63.428(h)(4)	Equipment leak	Y	
63.428(h)(4)(i)	The date on which the leak was detected	Y	
63.428(h)(4)(ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4)(iii)	The reasons for the delay of repair; and	Y	
63.428(h)(4)(iv)	The date of successful repair	Y	
40 CFR 64	**Compliance Assurance Monitoring (10/22/1997)**	Y	
64.2(a)	Applicability	Y	
64.3	Monitoring design criteria	Y	
64.3(a)	General criteria	Y	
64.3(a)(1)	Data for one or more indicators	Y	
64.3(a)(2)	Indicator range	Y	
64.3(a)(3)	Design of indicator ranges	Y	
64.3(b)	Performance criteria	Y	
64.3(b)(1)	Specifications for obtaining data	Y	
64.3(b)(2)	Verification procedures	Y	
64.3(b)(3)	Quality assurance and control practices	Y	
64.3(b)(4)	Specifications for frequency, procedures, and averaging periods	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
64.3(b)(4)(i)	Design of period over which data are obtained, etc.	Y	
64.3(b)(4)(iii)	Frequency for other pollutant-specific emission units	Y	
64.3(c)	Evaluation factors	Y	
64.4	Submittal requirements	Y	
64.4(a)	Submittal of monitoring that satisfies design requirements in 40 CFR 63.4	Y	
64.4(b)	Justification for the proposed monitoring	Y	
64.4(b)(1)	Presumptively acceptable monitoring approaches	Y	
64.4(c)(1)	Submittal of control device operating parameter data obtained during tests	Y	
64.4(c)(2)	Documentation of no changes to system after performance tests	Y	
64.5(b)	Deadline for submittals for other pollutant-specific emissions units	Y	
64.5(d)	Prior to approval, emissions unit subject to 40 CFR 70.1(a)(3)(i)(B)	Y	
64.6(a)	Approval by permitting authority	Y	
64.6(b)	Additional data collection	Y	
64.6(c)	Establishment of permit terms or conditions	Y	
64.6(d)	Installation, testing or final verification	Y	
64.7	Operation of approved monitoring	Y	
64.7(a)	Commencement of operation	Y	
64.7(b)	Proper maintenance	Y	
64.7(c)	Continued operation	Y	
64.7(d)	Response to excursions or exceedances	Y	
64.7(e)	Documentation of need for improved monitoring	Y	
64.8	Quality improvement plan	Y	
64.9	Reporting and recordkeeping requirements	Y	
64.9(a)	General reporting requirements	Y	
64.9(b)	General recordkeeping requirements	Y	
64.10	Savings provisions	Y	
BAAQMD Condition 6185			
Part 2	Hydrocarbon liquids loaded shall not exceed 18.8 million barrels in any consecutive 12-month period [Basis: Cumulative Increase]	Y	
Part 2a	Total combined POC/NPOC emissions shall not exceed 18,800 pounds in any consecutive 12-month period and use of additional materials does not increase toxic emissions above any Regulation 2-5 triggers [Basis: Cumulative Increase; Toxics]	Y	
Part 3	Hydrocarbon liquids loaded shall not exceed 250,000 barrels in any day	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	[Basis: Cumulative Increase]		
Part 3a	Total combined POC/NPOC emissions shall not exceed 250 pounds in any calendar day and use of additional materials does not increase toxic emissions above any Regulation 2-5 triggers [Basis: Cumulative Increase; Toxics]	Y	
Part 7	The average benzene concentration in all hydrocarbon liquids stored shall not exceed 2% by weight [Basis: Toxics]	N	
Part 17	Tank degassing shall be vented at all times to abatement devices [Basis: Regulation 8-5]	Y	
Part 19	Minimize fugitive emissions during tank cleaning operation [Basis: Cumulative Increase]	Y	
Part 24	Record keeping for tank degassing operations [Basis: Record Keeping]	Y	
BAAQMD Condition 27277			
Part 11	Total materials loaded shall not exceed 18.8 million barrels in any consecutive 12-month period. [Basis: Cumulative Increase]	Y	
Part 12	Total materials loaded shall not exceed 250,000 barrels in any calendar day. [Basis: Cumulative Increase]	Y	
Part 13	RVP shall not exceed 10 psia from January-April and November-December and 6.9 psia from May-October [Basis: Cumulative Increase]	Y	
Part 14	Total combined POC/NPOC emissions shall not exceed 9933 pounds in any consecutive 12-month period and 58 pounds per calendar day, and use of additional materials does not increase toxic emissions above any Regulation 2-5 triggers [Basis: Cumulative Increase; Toxics]	Y	
Part 15	Roof fittings counts [Basis: BACT]	Y	
Part 16	Records of throughputs, loading events, material specifications [Basis; Cumulative Increase, Regulation 2-1-233]	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 18	**Organic Compounds-Equipment Leaks (12/16/2015)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	N	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-301	General	Y	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connectors	N	
8-18-305	Pressure relief devices	N	
8-18-306	Non-repairable equipment	N	
8-18-307	Liquid Leaks	N	
8-18-308	Alternate compliance	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	
8-18-403	Visual inspection schedule	N	
8-18-404	Alternate inspection schedule	N	
8-18-405	Alternate inspection reduction plan	N	
8-18-406	Interim Compliance	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
8-18-503	Reports	N	
SIP BAAQMD Regulation 8, Rule 18	**Organic Compounds-Equipment Leaks (6/5/2003)**		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
		Y	
8-18-302	Valves	Y	
8-18-303	Pumps and Compressors	Y	
8-18-304	Connections	Y	
8-18-305	New or Replaced Valves	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-306	Non-repairable Equipment	Y	
8-18-307	Liquid Leak	Y	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	
SIP BAAQMD Regulation 8, Rule 25	**Organic Compounds-Pump and Compressor Seals at Petroleum Refinery Complexes, Chemical Plants, Bulk Plants and Bulk Terminals (3/7/1995)**		
8-25-301	Pump and compressor operating requirements	Y	
8-25-302	Pumps	Y	
8-25-303	Compressors	Y	
8-24-304	Non-repairable pumps and compressors	Y	
8-25-305	New or Replaced pumps and compressors	Y	
8-25-306	Repeat Leakers	Y	
8-25-307	Liquid Leak	Y	
8-25-401	Measurement schedule	Y	
8-25-402	Inspection plan	Y	
8-25-403	Visual inspection schedule	Y	
8-25-405	Pump and compressor identification	Y	
8-25-406	Leaking pumps and compressors	Y	
8-25-501	Portable hydrocarbon detector	Y	
8-25-503	Records	Y	
8-25-504	Burden of proof	Y	
40 CFR Part 63 Subpart R	**National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations) (12/14/94)**	Y	
63.424(a)	Perform monthly leak inspection of each equipment during the loading of a gasoline cargo tank	Y	
63.424(b)	Log book	Y	
63.424(c)	Record leak detection	Y	
63.424(d)	Delay repair	Y	
63.424(e)	December 15, 1997 initial compliance	Y	
63.424(f)	Alternative to compliance	Y	
63.424(g)	Measures taken	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
COMPONENTS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.424(g)(1)	Minimize gasoline spills	Y	
63.424(g)(2)	Cleanup spills expeditiously	Y	
63.424(g)(3)	Cover all gasoline containers	Y	
63.424(g)(1)	Minimize gasoline sent to waste collection systems	Y	

Table IV – I
Source-specific Applicable Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6 Rule 1	**Particulate Matter; General Requirements (12/05/2007)**		
6-1-303	Ringelmann Number 2 Limitation	N	
6-1-303.1	For Emergency Standy Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (09/04/1998)**		
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	Ringelmann No. 2 Limitation for standby sources of motive power	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		

IV. Source-specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
9-1-304	Liquid and Solid Fuels	Y	
BAAQMD Regulation 9, Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/2001)**		
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, Emergency Use	N	
9-8-330.3	Emergency Standby Engines, 50 Hours of Operation, Non-Emergency	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	Total Hours of Operation	N	
9-8-530.2	Emergency Hours of Operation	N	
9-8-530.3	Emergency Conditions	N	
CARB ATCM	**Stationary Diesel Engine ATCM section 93115, Title 17, CA Code of Regulations**		
93115.1	Purpose	N	
93115.2	Applicability	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	
93115.5(b)(1)	Must use CARB Diesel Fuel	N	
93115.6	ATCM for Stationary CI Engines – Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
93115.6(a)(3)	New Engines	N	
93115.6(a)(3)(A)	New Engines : Diesel PM Standard & Hours of Operation	N	
93115.6(a)(3)	General Requirements – meet the more stringent of diesel PM standards	N	

IV. Source-specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(A)(1)	in (a) and (b) and comply with (c)		
93115.6(a)(3)(A)(1)(a)	DPM <= 0.15 g/bhp-hr OR	N	
93115.6(a)(3)(A)(1)(b)	Meet DPM standard in 13CCR 2423	N	
93115.6(a)(3)(A)(1)(c)	Hours of Operation: 50 hrs/yr maintenance and testing. No limit for emergency and emission testing for compliance with this regulation	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 : Hydrocarbon, NMHC, NOx, CO Standards – Off-road Compression-Ignition Engine Standards (13 CCR 2423) or Tier 1 standards in 13 CCR 2423 if no applicable off-road CI engine standards..	N	
93115.6(a)(3)(C)	New Engines: District may establish more stringent limits and 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)	Compliance schedule for 13 CCR 2423 Tier 2, Tier 3, and Tier 4 standards	N	
93115.6(a)(4)(A)(1)(b)	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	Recordkeeping, Reporting and Monitoring	N	
93115.10(e)	Monitoring Equipment	N	
93115.10(e)(1)	Install non-resettable hour meter with minimum display of 9,999 hours (S-1488 only)	N	
93115.10(e)(3)	District may require additional monitoring	N	
93115.10(g)	Reporting Requirements for Emergency Standby Engines	N	

IV. Source-specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115.10(g)(1)	Records and monthly summary required	N	
93115.10(g)(2)	Record retention	N	
93115.15	Severability	N	
40 CFR 60	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A	General Provisions	Y	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and Abbreviations	Y	
60.4	Address	Y	
60.4(b)	Reports to EPA and District	Y	
60.5	Determination of Construction or Modification	Y	
60.6	Review of Plans	Y	
60.7	Notification and Recordkeeping	Y	
60.7(a)	Written notification	Y	
60.7(b)	Records	Y	
60.8	Performance Tests	Y	
60.9	Availability of Information	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	Y	
60.14	Modification	Y	
60.15	Reconstructions	Y	
60.17	Incorporated by Reference	Y	
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (7/11/2006)		
60.4200	Applicability	Y	
60.4200(a)	Applicable to owners/operators of stationary compression ignition (CI) internal combustion engines (ICE)	Y	
60.4200(a)(2)	Stationary CI ICE that were constructed after 7/11/2005 where	Y	
60.4200(a)(2)(ii)	Manufactured as a certified NFPA fire pump engine after 7/1/2006	Y	

IV. Source-specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.4205	Emission standards for emergency stationary CI ICE	Y	
60.4205(c)	Fire pump engines with displacement less than 30 l per cylinder must meet emission standards in Table 4 for all pollutants	Y	
60.4206	Meet Table 4 emission standards for the life of the engine	Y	
60.4207	Fuel requirements for stationary CI ICE	Y	
60.4207(a)	Use diesel fuel that meets the requirements of 40 CFR 80.510(a)	Y	
60.4207(b)	Use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel	Y	
60.4207(c)	Option to petition EPA to use remaining non-compliant fuel	Y	
60.4209	Monitoring requirements for stationary CI ICE	Y	
60.4209(a)	Install a non-resettable hour meter prior to the startup of an emergency engine	Y	
60.4209(b)	Diesel particulate filter must be installed with backpressure monitor to indicate when the high backpressure limit of the engine is approached	Y	
60.4211(a)	Operate and maintain stationary CI ICE and control device per manufacturer's written instructions.	Y	
60.4211(e)	Operation for maintenance and readiness checks are limited to 100 hours per year. No limit on emergency use. Any operation other than for maintenance, readiness checks, or emergencies is prohibited.	Y	
60.4212	Compliance requirements for stationary compression ignition ICE	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	
60.4124(c)	Maintain records of any corrective action taken if backpressure monitor indicates that high backpressure limit has been approached	Y	
40 CFR Part 63 Subpart A	National Emissions Standards for Hazardous Air Pollutants for Source Categories, Subpart A – General Provisions		
63.1	General Applicability of the General Provisions	Y	
63.2	Definitions	Y	
63.3	Units and Abbreviations	Y	
63.4	Prohibited activities and circumvention	Y	
63.6(a)	Compliance with standards and maintenance requirements - Applicability	Y	
63.6(c)	Compliance dates for existing sources	Y	
63.6(f)(2)	Methods for determining compliance	Y	

IV. Source-specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6(f)(3)	Finding of compliance	Y	
63.6(g)	Use of an alternative nonopacity emission standard	Y	
63.6(i)	Compliance extension procedures and criteria	Y	
63.6(j)	Presidential compliance exemption	Y	
63.10(a)	Recordkeeping and reporting requirements, applicability and general information	Y	
63.10(b)(1)	Record retention	Y	
63.10(d)(1)	General reporting requirements	Y	
63.10(f)	Administrator waiver of recordkeeping or reporting requirements	Y	
63.12	State authority and delegations	Y	
63.13	Addresses of air pollution control agencies and EPA Regional Offices	Y	
63.14	Incorporation by reference	Y	
63.15	Availability of information and confidentiality	Y	
BAAQMD Condition # 22850			
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	
Part 5	At School or Near School Operation [basis: Title 17, California Code of Regulations, section 93115, ATCM for Stationary CI Engines]	Y	

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

COND# 6185

For S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32 THROUGH S-44, STORAGE TANKS, S-27 MARINE LOADING:

1. The Owner/Operator of Storage Tanks S-32, S-33, S-34, S-35, S-36, S-37, S-39, and S-41 ~~S-32 through S-44~~ and Marine Loading Berth S-27 shall vent all emissions at all times of operation to the properly maintained and properly operated A-421 and A-422 Regenerative Carbon Units. The switching time between carbon canisters for these units shall not exceed 20 minutes while the system is operating. This condition shall not apply to exempt materials. [Basis: Cumulative Increase]

2. The Owner/Operator shall not load more than 18.8 million barrels of ~~non-exempt~~ organic ~~compounds~~ materials ~~(as defined in District Regulation 2, Rule 1, Section 123)~~ into Storage Tanks S-32 through S-44 in any consecutive 12-month period. [Basis: Cumulative Increase]
   a. The owner/operator of S-32 through S-44 may store usages in excess of those specified in Part 2, provided that the owner/operator can demonstrate that the following are satisfied:
      a. Total combined POC/NPOC emissions from S-32 through S-44 do not exceed 18,800 pounds in any consecutive 12-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.

   Daily records of the total liquid loaded into Storage Tanks S-32 through S-44 shall be kept in a District approved log and retained for 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; Toxics]

3. The Owner/Operator shall not load more than 250,000 barrels of ~~non-exempt~~ organic ~~compounds~~ materials~~(as defined in District Regulation 2, Rule 1, Section 123)~~ into Storage Tanks S-32 through S-44 in any calendar day. Daily records of the total liquid loaded into Storage Tanks S-32 through S-44 shall be kept in a District approved log and retained for 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]
   a. The owner/operator of S-32 through S-44 may store usages in excess of those specified in Part 3, provided that the owner/operator can demonstrate that the following are satisfied:
      a. Total combined POC/NPOC emissions from S-32 through S-44 do not exceed 250 pounds in any calendar day; 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.

   Daily records of the total liquid loaded into Storage Tanks S-32 through S-44 shall be kept in a District approved log and retained for 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; Toxics]

4. The Owner/Operator shall not load more than 47.6 million barrels of ~~non-exempt~~ organic ~~compounds (as defined in District Regulation 2, Rule 1, Section 123)~~materials into marine vessels at the Marine Loading Terminal S-27 in any consecutive 12-month period. Monthly records of the

VI. Permit Conditions

total hydrocarbon liquid loaded into marine vessels at S-27 shall be kept in a District approved log and retained for 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]

a. The owner/operator of S-27 may load usages in excess of those specified in Part 4, provided that the owner/operator can demonstrate that the following are satisfied:
   a. Total combined POC/NPOC emissions from loading any organic material into marine vessels at S-27 do not exceed 47,600 pounds in any consecutive 12-month period;
   b. Total combined POC/NPOC emissions from loading any organic material into marine vessels at S-27 do not exceed 10 pounds in any given hour;
   c. 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.

   Daily and hourly records of the total liquid loaded at S-27 shall be kept in a District approved log and retained for 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; Toxics]

5. The Owner/Operator shall ensure that emissions from the A-421 and A-422 Regenerative Carbon Units do not exceed 1 pound of POC's per 1000 barrels of hydrocarbon liquid transferred at S-27, ~~and~~ S-32, S-33, S-34, S-35, S-36, S-37, S-39, and S-41~~S-32 through S-44~~. [Basis: Cumulative Increase]

*6. The Owner/Operator shall ensure that the Benzene emissions from the A-421 and A-422 Carbon Systems combined do not exceed 0.15 lbs per calendar day. [Basis: Toxics]

*7. The Owner/Operator shall ensure that the average benzene concentration in all ~~non-exempt~~ organic ~~compounds (as defined in District Regulation 2, Rule 1, Section 123)~~materials stored in Storage Tanks S-32 through S-44 do not exceed 2% by weight. The owner/operator of sources S-32 through S-44 shall randomly analyze materials stored in at least three storage tanks for the average benzene concentration at least once every 6 months. Each tank shall be sampled within 30 days of start-up. If the owner/operator can demonstrate that several tanks contain ~~non-exempt~~ organic ~~compounds~~ materials from a single source (shipment), then a single benzene analysis may be performed for that group of tanks. These records shall be kept on file for at least five years after the date of entry and shall be made available to District personnel upon request. All tests shall be performed in accordance with District approved laboratory procedures. [Basis: Toxics]

8. Start-up source test condition, deleted.

9. Deleted.

10. The Owner/Operator shall ensure all new hydrocarbon liquid product pumps shall be equipped with either double mechanical shaft seals or shall utilize seal-less magnetically coupled pumps. These new pumps shall be subject to the inspection and maintenance requirements of District Regulation 8-18 and any future revisions to this rule. [Basis: Regulation 8-18]

11. The Owner/Operator shall ensure all new valves and flanges shall be subject to the inspection and maintenance criteria of District Regulation 8-18 and any future revisions to this rule. [Basis: Regulation 8-18]

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12. The Owner/Operator shall equip Storage Tanks S-32, S-33, S-34, S-35, S-36, S-37, S-39, and S-41 ~~S-32 through S-44~~ with properly installed and properly operated pressure relief valves which do not open under normal operating conditions and thereby allow bypassing of the A-421/A-422 Carbon System. The Owner/Operator of S-27 Marine Terminal shall use connection couplings, which minimize fugitive leaks during connection and disconnection of the product loading and vapor recovery piping. [Basis: Regulation 8-18]

13. Deleted.

14. The Owner/Operator of the A-421 and A-422 Regenerative Carbon Systems shall install an infrared combustible gas detector or District approved equivalent at the outlet of these carbon units. This detector shall continuously measure and record non-methane hydrocarbon concentration in PPM as propane. The type and design specifications of this detector shall be approved by the District's Source Test Manager before installation. [Basis: NSPS]

15. Deleted, extra requirement, continuous hydrocarbon monitor and recorder installed at the tail end of the abatement's outlet is already a good indicator.

16. The Owner/Operator shall not degas more than six tanks at this facility using A-421 and A-422 in any consecutive 12-month period. [Basis: Cumulative Increase]

17. The Owner/Operator shall vent all tank degassing operations at all times in accordance with Regulation 8-5-328. [Basis: Regulation 8-5]

18. Deleted.

19. The Owner/Operator shall ensure that the tank cleaning operations are in accordance with Regulation 8-5-331. Fugitive emissions during tank cleaning operations shall be minimized. [Basis: Cumulative Increase]

20. The Owner/Operator shall vent storage tank vapors from Storage Tanks S-32, S-33, S-34, S-35, S-36, S-37, S-39, and S-41 to ~~the~~ A-421 and A-422 control equipment, or an authorized portable unit for as long as is necessary to reduce the POC concentration in the vapor stream to less than 1% (vol) or 10,000 ppm. [Basis: Cumulative Increase]

21. Deleted.

22. The Owner/Operator shall equip A-421 and A-422 with a continuous hydrocarbon concentration monitor and recorder that measures the outlet concentrations at this abatement equipment. [Basis: NSPS]

23. The Owner/Operator shall not degas any tanks to the A-421/A-422 Carbon Systems during bulk liquid transfers at any other sources abated by A-421 and A-422. [Basis: Cumulative Increase]

24. The Owner/Operator shall maintain the following records pertaining to tank degassing operations:
    a) Number of tank degassing operations,

VI. Permit Conditions

b) Abatement device used for each degassing operation
c) The hydrocarbon concentration at the outlet of the abatement device during the venting operation. [Basis: Recordkeeping]

These records shall be kept in a District approved log and retained for 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]

25. The Owner/Operator shall ensure that the combined total pumping rate through the two loading arms associated with S-27 does not exceed 10,000 barrels per hour. ~~This condition shall not apply to exempt materials.~~ [Basis: Cumulative Increase]

26. The Owner/Operator shall transfer only the following materials at Marine Loading Terminal S-27:

1) Ethanol, Methanol
2) Gasoline
3) MTBE
4) Any material which is exempt from District permitting requirements (as long as the loading of this exempt material has been properly reported to the District), or any other petroleum hydrocarbon material with a vapor pressure less than unleaded gasoline (6.2 psia at 70 deg F) and toxicity less than unleaded gasoline (4% benzene by weight).
5) Renewable/alternative jet fuel.

[Basis: Cumulative Increase, Toxics]

27. The Owner/Operator shall conduct an annual emissions and efficiency test on equipment A-421 and A-422 when loading a marine vessel with any organic material at S-27. If no marine vessels are loaded at S-27 during a given calendar year, the owner/operator shall submit to the District's Engineering Division no later than 60 days after the end of the calendar year written notification and the corresponding monthly records showing zero throughput at S-27 during the given calendar year or the last recorded throughput at S-27 occurring during the prior calendar year and shall conduct an annual emissions and efficiency test on equipment A-421 and A-422 during the next marine vessel loading event at S-27. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements as specified in 40 CFR 63, Section 63.565(d). 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. These records shall be kept on file for at least five years after the date of entry and shall be made available to District personnel upon request. (Basis: 40 CFR 63, 63.563(b)6))

COND# 12677

For S-1 THROUGH S-26, S-30, S-32 THROUGH S-44 - STORAGE TANKS, S-27 - MARINE LOADING RACKS:

VI. Permit Conditions

1. The Owner/Operator shall ensure that POC emissions from Sources S-1 through S-26 and S-32 through S-44 plus tanker transit combustion emissions calculated in accordance with the equation below, do not exceed 73 tons during any consecutive 12 month period, nor 11,644 lb/day. The emissions shall be calculated by adding the following:

   Tanker Transit Emissions
   Tanker Hotelling Emissions
   Tanker Pumping Emissions
   Truck Rack Emissions
   Tug Combustion Emissions
   Fugitive Emissions
   Low Vapor Pressure Product Tank Breathing Losses
   Gasoline Tank Standing Losses
   Low Vapor Pressure Product Tank Working Losses
   Gasoline Tank Withdrawal Losses
   Oil/Water Separator Emissions
   Diesel Tank Withdrawal Emissions

   All calculations shall be performed in accordance with the procedures shown in schedule F. [Basis: Cumulative Increase]

2. The Owner/Operator shall ensure that POC emissions from Source S-27 Marine Loading operations do not exceed 23.8 tons in any consecutive 12 month period. [Basis: Cumulative Increase]

   All calculations shall be performed in accordance with the procedures shown in schedule F. [Basis: Cumulative Increase]

3. The Owner/Operator shall ensure that carbon monoxide emissions from Sources S-1 through S-26 plus tanker combustion emissions do not exceed 95.0 tons in any consecutive 12 month period. The emissions shall be calculated by adding the following:
   Tug Combustion Emissions
   Tanker Hotelling Emissions
   Tanker Transit Emissions
   Tanker Pumping Emissions

   All calculations shall be performed in accordance with the procedures shown in schedule F. [Basis: Cumulative Increase]

4. The Owner/Operator shall ensure that oxides of nitrogen, NOx, emissions (as NO2) from Sources S-1 through S-26 plus tanker transit emissions do not exceed 95.0 tons in any consecutive 12 month period nor 1923 lb/day. The emissions shall be calculated by adding the following:
   Tug Combustion Emissions
   Tanker Hotelling Emissions
   Tanker Transit Emissions
   Tanker Pumping Emissions

   All calculations shall be performed in accordance with the procedures shown in schedule F. [Basis:

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Cumulative Increase]

5. The Owner/Operator shall ensure that sulfur dioxide emissions from Sources S-1 through S-26 plus tanker transit combustion emissions do not exceed 45.4 tons in any consecutive 12-month period nor 7918 lbs/day. The emissions shall be calculated by adding the following:
   Tug Combustion Emissions
   Tanker Hotelling Emissions
   Tanker Transit Emissions
   Tanker Pumping Emissions

   All calculations shall be performed in accordance with the procedures shown in schedule G.

   All emissions calculations in schedule F assume that marine bunker fuel contains 2% sulfur and marine diesel contains 0.5% sulfur.

   If the ships use a fuel with a different sulfur content, the actual sulfur emissions will be different. The total sulfur emission must be calculated using the procedure shown in schedule G. [Basis: Cumulative Increase]

6. The Owner/Operator shall ensure that particulate matter emissions (PM10) from Sources S-1 through S-26 plus tanker transit combustion emissions do not exceed 23.0 tons during any consecutive 12 month period nor 281 pounds on any day. The emissions shall be calculated by adding the following:
   Tug Combustion Emissions
   Tanker Hotelling Emissions
   Tanker Transit Emissions
   Tanker Pumping Emissions

   All calculations shall be performed in accordance with the procedures shown in schedule F. [Basis: Cumulative Increase]

7. The Owner/Operator shall store products in Tanks S-1, S-2, S- 3, S-5, S-6, S-12, S-15, S-24, S-25, and S-30 that have true vapor pressure not greater than 11.0 psia. [Basis: Cumulative Increase]

8. The Owner/Operator shall vent all emissions from the S-22 Shore Terminals-Selby Truck Loading Rack to the A-1 Vapor Recovery System, which shall meet the following requirements:
   A. POC emissions from A-1 shall not exceed 0.04 lb/Mgal of gasoline loaded, or the current District Regulation limit, whichever is more stringent. [Basis: Regulation 8-33]
   B. Vapor outlet shall be equipped with a combustible gas detector/recorder. This detector shall be set to provide a visible and audible alarm at no more than 4% hydrocarbon (as propane). The District is to be notified within 96 hours of the triggering of this alarm. Charts are to be retained for no less than five years, and shall be available for District inspection upon request. [Basis: Regulation 2-1-403]
   C. Shore Terminals-Selby shall provide fail-safe instrumentation that will make it impossible to load a truck if the combustible gas detector indicates a hydrocarbon content in excess of 4% (as butane). [Basis: Regulation 2-1-403]
   D. Shore Terminals-Selby shall test the overall hydrocarbon emissions once every six months.

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The testing shall be performed in accordance with District Manual of Procedures. [Basis: Regulation 2-1-403]

E. A performance test is required after no less than 30 days and no more than 60 days of operation following installation of any fresh carbon. The applicant shall contact the Source Test Section within 30 days of start- up for testing requirements. [Basis: Regulation 2-1-403]

F. Operating time between carbon bed switching shall be no more than 30 minutes while the system is operating. [Basis: Regulation 8-5, NSPS]

9. The Owner/Operator shall inspect and maintain all pumps, valves, flanges and compressors according to the requirements of District Regulation 8-18. [Basis: Regulation 8-18]

10. The Owner/Operator shall drain and treat any organic/water mixture from degassed storage tanks in the oil/water separator, or transport off-site for disposal at an authorized facility. [Basis: Regulation 8-5]

11. The Owner/Operator shall not receive products from or load products onto any vessel at the terminal which has a maximum registered deadweight tonnage greater than 139,000 deadweight tons, as shown in the most recent published edition of Clarkson's Tanker Register or another similar authoritative source. [Basis: Cumulative Increase]

12. The Owner/Operator shall not allow emissions of a gas, which contains in excess of 2000 ppm (vol.) of sulfur dioxide at the terminal during marine vessel calling. [Basis: Regulation 9-1-303]

13. The Owner/Operator shall not allow any marine vessel calling exclusively at the Terminal shall, while within District waters, engage in any maintenance, repair, inspection, washing or lightering or cargo tanks or any other operation (excepting cargo loading and off- loading, ballasting, and bunkering) that result in the escape of hydrocarbon vapors to the atmosphere, except that this does not prohibit emergency repairs. [Basis: Cumulative Increase]

14. The Owner/Operator shall stop all pumping of products and all ballasting in the event of a spill of petroleum products to the Bay by a marine vessel while at Terminal's dock. These operations will not be resumed until the situation has been rectified. [Basis: Regulation 8-5]

15. The Owner/Operator shall stop all ballasting into cargo tanks which contain gasoline or loading or cargo in the event that the Air Pollution Emergency level is reached for ozone in the District. Ballasting or loading can be resumed when the Emergency has been called off by the District. [Basis: Regulation 8-44-305]

16. Nothing in any conditions of this permit shall be construed to require any act or omission or to prohibit any act where such requirement or prohibition would be in violation of any regulation or other requirement of the U.S. Coast Guard. [Basis: Regulation 8-44-402]

17. Deleted

18. No later than 60 days after the end of each calendar year, the Owner/Operator shall submit to the District a report demonstrating compliance with the conditions of this permit. The annual reports shall include all data necessary to determine compliance with these permit conditions including:

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A. A list of all sources in operation at the Terminal throughout the year.
B. A list of new sources which began operation during the year, and the date they commenced operating.
C. The total volume of each type of product received at the Terminal during the year.
D. The total volume of each type of product shipped from the Terminal during the year.
E. For each marine vessel which called at the Terminal during the year provide: the name, registered size (in deadweight tons), propulsion source (motor or steam), quantity and type of cargo off-loaded and/or on-loaded, number of tug-hours of assistance provided at berthing and de-berthing, and whether the vessel called at any other wharf in the District to deliver or load cargo.
F. The total volume of gasoline delivered through the truck rack during the year.
G. The total volume of liquids processed through the oil/water separator during the year. [Basis: Recordkeeping]
H. The volume of 0.5% S fuel, 0.25% S marine diesel, and 0.010% S marine diesel supplied to marine vessels calling at the Terminal during the year, and the identification of each vessel to which it was supplied. [Basis: Cumulative Increase]

19. No later than 30 days after the end of each calendar quarter, the Owner/Operator shall submit to the District's Permit Services Division a report containing the information required by condition 18 E applicable to that quarter. [Basis: Cumulative Increase]

SCHEDULE A
ORGANIC COMPOUND EMISSION CALCULATIONS

CARGO LOADING OPERATION
CARGO LOADING EMISSIONS < 36.9 TONS PER YEAR TERMINAL TOTALS

TERMINAL TOTALS
TANKER TRANSIT EMISSIONS + TANKER HOTELLING EMISSIONS + TANKER PUMPING EMISSIONS + TRUCK RACK EMISSIONS
+ TUG COMBUSTION EMISSIONS + FUGITIVE EMISSIONS + LOW VAPOR PRESSURE PRODUCT TANK BREATHING LOSSES + GASOLINE TANK STANDING LOSSES + LOW VAPOR PRODUCT + GASOLINE TANK WITHDRAWAL LOSSES + OIL/WATER SEPARATOR EMISSIONS + DIESEL TANK WITHDRAWAL EMISSIONS < 69 TONS PER YEAR

ALL CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURE SHOWN IN SCHEDULE F.

SCHEDULE B
CARBON MONOXIDE EMISSIONS CALCULATIONS

TUG COMBUSTION EMISSIONS + TANKER HOTELLING EMISSIONS + TANKER TRANSIT EMISSION + TANKER PUMPING EMISSIONS < 95.0 TONS PER YEAR

ALL CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURE

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SHOWN IN SCHEDULE F.

SCHEDULE C
OXIDES OF NITROGEN EMISSION CALCULATIONS

TUG COMBUSTION EMISSIONS + TANKER HOTELLING EMISSIONS + TANKER TRANSIT EMISSIONS + TANKER PUMPING < 95.0 TONS PER YEAR

ALL CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURES SHOWN IN SCHEDULE F.

SCHEDULE D
SULFUR DIOXIDE EMISSION CALCULATIONS

TUG COMBUSTION EMISSIONS + TANKER HOTELLING EMISSIONS + TANKER TRANSIT EMISSIONS + TANKER PUMPING EMISSIONS < 45.4 TONS PER YEAR

ALL CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURES SHOWN IN SCHEDULE G.

* ALL EMISSION CALCULATIONS IN SCHEDULE F ASSUME THAT MARINE BUNKER FUEL CONTAINS 2% SULFUR AND MARINE DIESEL CONTAINS 0.5% SULFUR
IF THE SHIPS USE A FUEL WITH A DIFFERENT SULFUR CONTENT, THE ACTUAL SULFUR EMISSIONS WILL BE DIFFERENT. THE TOTAL SULFUR EMISSION MUST BE CREDIT CALCULATED USING THE PROCEDURE SHOWN IN SCHEDULE G

SCHEDULE E
PARTICULATE MATTER EMISSION CALCULATIONS

TUG COMBUSTION EMISSIONS + TANKER HOTELLING EMISSIONS + TANKER TRANSIT EMISSIONS + TANKER PUMPING EMISSIONS < 23.0 TONS PER YEAR

ALL CALCULATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROCEDURES SHOWN IN SCHEDULE F.

SCHEDULE F
DETAILED CALCULATION PROCEDURES
(SEE ENGINEERING EVALUATION REPORT # 30472 FOR DETAILED DERIVATIONS)

TRUCK RACK EMISSIONS
0.08 LB/1000 GALLONS OF GASOLINE LOADED THROUGH RACK

FUGITIVE (VALVE, FLANGES, COMPRESSORS)
100 LB./DAY
FLOATING ROOF TANKS

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D = TANK DIAMETER
FOR EACH GASOLINE TANK
Ls = 25.6 X D LB VOC/DAY / 365
FOR EACH DIESEL TANK
Ls = NEGLIGIBLE WITHDRAWAL LOSSES (TOTAL FACILITY)
Lw = 6.4 LB./DAY

FIXED ROOF TANKS
D = TANK DIAMETER
LB = 0.323 X $D^{1.73}$ LB. VOC/DAY / 365
Lw = .383 LB. VOC/1000 BBL THROUGHPUT

OIL/WATER SEPARATOR
0.2 LB VOC/1000 GALLON WATER PROCESSED

CARGO LOADING

			GASOLINE			DIESEL
TYPE OF VESSEL	PRIOR CARGO	CONDITION OF COMPARTMENT	EMISSION FACTOR (LBS VOC/1000 BBL LOADED)			
			Min Ullage < 10 FT	Min Ullage 10-20 FT	Min Ullage >20FT	
TANKER/OCEAN BARGE	VOLATILE	UNCLEANED	109.2	94.5	79.8	79.8
		BALLASTED	71.4	56.7	42.0	42.0
		CLEANED	63.04	8.3	33.6	33.6
		GAS-FREED	29.4	14.7	0.0	0.0
	NOT-VOLATILE	ALL	29.4	14.7	0.0	0.0
BARGE	VOLATILE	UNCLEANED	163.8	163.8	163.8	79.8
		BALLASTED	84.0	84	84	0
		CLEANED	84.0	84	84	0
		GAS-FREED	84.0	84	84	0
	NOT-VOLATILE	ALL	84.0	84	84	0

VOLATILE LIQUID IS ANY LIQUID WITH A TRUE VAPOR PRESSURE > 1.5 PSIA.

MARINE VESSEL CALCULATIONS

CALCULATIONS OF SULFUR DIOXIDE FROM MARINE VESSELS WHICH CALL AT THE TERMINAL SHALL BE BASED ON THE ACTUAL SULFUR CONTENT OF THE FUEL USED. SULFUR DIOXIDE EMISSIONS SHALL BE CALCULATED USING SCHEDULE G.

TUG ASSIST

EMISSIONS = # OF TUGS x TUG ASSIST TIME x FACTOR

FACTORS: VOC CO NOx PM

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LB/TUG-HOUR	0.85	3.73	37.45	1.64

STEAM SHIP
TRANSIT EMISSIONS (BASIS: 2.0% FUEL OIL)
EMISSIONS = # OF CALLS x FACTOR (FOR SHIPS MAKING CALLS AT OTHER BAY AREA PORTS)
= # OF CALLS x FACTOR x 2 (FOR SHIPS CALLING SOLELY AT SHORE TERMINALS LLC)

	FACTOR (LB/CALL)			
STEAM SHIP SIZE	VOC	CO	NOx	PM
< 20 M DWT	2	2	30	12
20-29M DWT	3	3	49	19
30-39M DWT	4	3	57	22
40-49M DWT	4	4	66	26
50-59M	5	4	80	31
60-79M DWT	6	5	91	36
80-99M DWT	7	6	110	43
100-139M DWT	8	7	121	48

HOTELLING EMISSIONS

EMISSIONS = HOTELLING TIME x FACTOR
= 6 x FACTOR (FOR OFFLOADING)
= ACTUAL LOADING TIME x FACTOR (FOR LOADING)

	FACTOR (LB/HR)			
STEAM SHIP SIZE	VOC	CO	NOx	PM
<60M DWT	0.1	0.1	0.9	0.8
60-139M DWT	0.3	0.2	1.8	1.6

PUMPING EMISSIONS
EMISSIONS = 1000 BBLS OFF-LOADED x FACTOR

FACTOR	VOC	CO	NOx	PM
LB/1000	0.1	0.1	1.4	0.6

MOTOR SHIP
TRANSIT EMISSIONS
EMISSIONS = # OF CALLS x FACTOR (FOR SHIPS MAKING CALLS AT OTHER BAY AREA PORTS)
= # OF CALLS x FACTOR x 2 (FOR SHIPS CALLING ONLY AT SHORE TERMINALS LLC)

	FACTOR (LB/CALL)			
MOTOR SHIP SIZE	VOC	CO	NOx	PM

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<20M DWT	10	18	116	6
20-29M DWT	23	40	260	14
30-39M DWT	28	49	318	17
40-49M DWT	34	58	375	20
50-59M DWT	35	60	390	21
60-79M DWT	39	67	434	24
80-99M DWT	45	78	505	28
100-139M DWT	54	94	607	33

HOTELLING EMISSIONS

EMISSIONS = HOTELLING TIME x FACTOR
= 6 x FACTOR (FOR OFF-LOADING)
= ACTUAL LOADING TIME x FACTOR (FOR LOADING)

MOTOR SHIP SIZE	VOC	CO	NOx	PM
<60M DWT	0.7	1.2	7.7	0.4
60-139M DWT	1.4	2.4	15.4	0.8

PUMPING EMISSIONS

EMISSIONS = 1000 BBLS OFF-LOADED x FACTOR

FACTOR	VOC	CO	NOx	PM
1B/1000 BBLS	0.1	0.1	1.4	0.6

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SCHEDULE G

SULFUR EMISSIONS FROM SHIP COMBUSTION

A. FUEL OIL

FUEL OIL SHALL BE ASSUMED TO CONTAIN 3.5% SULFUR. SHORE TERMINALS LLC MAY TAKE A SAMPLE OF FUEL IN SHIP'S TANKS, AND USE THE ACTUAL MEASURED SULFUR CONTENT IN THE FOLLOWING CALCULATION.

TUG ASSIST = EMISSION # OF TUGS x TUG ASSIST TIME x % SULFUR x FACTOR
FACTOR = 2.3

STEAM SHIP

TRANSIT EMISSIONS
EMISSIONS = # OF CALLS x FACTOR x % SULFUR (FOR SHIPS MAKING CALLS AT OTHER BAY AREA POINTS)
= # OF CALLS x FACTOR x % SULFUR x 2 (FOR SHIPS CALLING SOLELY AT SHORE TERMINALS LLC)

FACTOR (LB/CALL)

STEAM SHIP SIZE	SOx
<20M DWT	100
20-29M DWT	162
30-39M DWT	187
40-49M DWT	217
50-59M DWT	261
60-79M DWT	298
80-99M DWT	360
100-139M DWT	398

HOTELLING EMISSIONS

EMISSIONS = HOTELLING TIME x FACTOR x % SULFUR
= 6 x FACTOR (FOR OFFLOADING)
= ACTUAL LOADING TIME x FACTOR (FOR LOADING)

FACTOR (LB/HR)

STEAM SHIP SIZE	SOx
<60M DWT	6.6
60-139M DWT	13.2

PUMPING EMISSIONS
EMISSIONS = 1000 BBLS OFF-LOADED x FACTOR x % SULFUR

FACTOR SOx

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1B/1000 BBLS	4.8

MOTOR SHIP
TRANSIT EMISSIONS
EMISSIONS = # OF CALLS x FACTOR x % SULFUR (FOR SHIPS MAKING CALLS AT OTHER BAY AREA PORTS)
= # OF CALLS x FACTOR x % SULFUR x 2 (FOR SHIPS CALLING ONLY AT SHORE TERMINALS LLC)

	FACTOR (LB/CALL)
MOTOR SHIP SIZE	SOx
<20M DWT	44
20-29M DWT	100
30-39M DWT	122
40-49M DWT	144
50-59M DWT	148
60-79M DWT	166
80-99M DWT	194
100-139M DWT	232

HOTELLING EMISSIONS
EMISSIONS = HOTELLING TIME x FACTOR x % SULFUR
= 6 x FACTOR (FOR OFFLOADING)
= ACTUAL LOADING TIME x FACTOR (FOR LOADING)

MOTOR SHIP SIZE	SOx
<60M DWT	3.0
60-139M DWT	5.8

PUMPING EMISSIONS
EMISSIONS = 1000 BBLS OFF-LOADED x FACTOR x % SULFUR

FACTOR	SOx
1B/1000 BBLS	4.8

COND# 22850

For S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

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

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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]

COND# 24901

For S-22 TRUCK LOADING RACK

1. Deleted.
2. Deleted.

3. On a quarterly basis, the owner/operator shall monitor the fugitive components installed as part of Application 22960 for leaks with a device such as, but not limited to, a flame ionization detector

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(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 30 days of discovering a leak, the owner/operator shall repair and re-inspect all flanges, connectors, and valves installed under Application 22960 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. Within 30 days of discovering a leak, the owner/operator shall repair and re-inspect all pressure relief valves installed under Application 22960 that are found to be leaking in excess of 500 ppm of TOC expressed as methane. [Basis: Regulation 2-1-403 and Regulation 2, Rule 5]

6. Each backpressure monitor installed by the owner/operator under Application 22960 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 22960 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]

7. 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 22960 for at least 24 months from date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). 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]

COND# 27277

For S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32 THROUGH S-44, STORAGE TANKS, S-22 TRUCK LOADING RACK, S-27 MARINE LOADING

1. The owner/operator of S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, and S-44 shall not exceed a combined total throughput of more than 1,110,159,246 gallons of material in any consecutive 12-month period. The owner/operator may exceed the preceding throughput limit at S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, and S-44 by a combined total of no more than 546,361,200 gallons of ethanol and Regulation 2, Rule 1 exempt materials that are received by rail car in any consecutive 12-month period.

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[Basis: Regulation 2-1-233]

2. The owner/operator of S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, and S-44 shall not exceed a combined total throughput of more than 13,301,400 gallons of material in any calendar day. The owner/operator may exceed the preceding throughput limit at S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, and S-44 by a combined total of no more than 1,995,840 gallons of ethanol and Regulation 2, Rule 1 exempt materials that are received by rail car in any calendar day.
[Basis: Regulation 2-1-233]

3. The owner/operator of S-22 shall not load more than 420,480,000 gallons of all materials at S-22 during any consecutive twelve-month period.
[Basis: Regulation 2-1-233]

4. The owner/operator of S-22 shall not load more than 1,536,000 gallons of all materials at S-22 in any calendar day.
[Basis: Regulation 2-1-233]

5. The owner/operator of S-22 shall vent all emissions from the S-22 Truck Loading Rack to A-1 whenever any organic liquid (including but not limited to gasoline, transmix, jet fuel, renewable jet fuel, and diesel) is loaded into a truck in accordance with the requirements of Regulation 8-33-301. [Basis: Regulation 2-1-233]

6. Not more than 30 days after the startup of S-1, S-3, S-5, S-12, S-22, and S-27; the owner/operator shall provide the Air District's Engineering Division with a final count of fugitive components installed. The owner/operator has been permitted for an increase in the following fugitive components as part of their renewable jet project:

valves in light liquid service	92
pump seals in light liquid service	4
Connectors/flanges	419

a. The valves shall be either bellow valves, diaphragm valves, quarter turn valves, live loaded valves, or other low emission valves.
b. The pumps shall be double mechanical seals with barrier fluid or Air District-approved equivalent.
c. The connectors and flanges shall have graphitic gaskets or Air District-approved equivalent.

Once installed, the fugitive components shall be included incorporated into the Leak Detection and Repair (LDAR) program and comply with the applicable requirements of Regulation 8-18.
[Basis: BACT]

7. The owner/operator of S-1, S-3, S-5, S-12, S-22, and S-27 may not operate both the blend/loading pump and its backup pump at a same time when loading, unloading, or blending materials to or from S-1, S-3, S-5, S-12, S-22, or S-27.
[Basis: 2-1-233]

8. The owner/operator of S-22 shall load only one truck per lane at any given time at S-22.

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[Basis: 2-1-233]

9. The owner/operator of S-1 shall not install any electric heater to heat materials stored in S-1.
[Basis: 2-1-233]

10. (Deleted; moved to Part 17)

11. The owner/operator of S-38, S-40, S-42, S-43, and S-44 shall not exceed a combined total throughput of more than 789,600,000 gallons (18.8 million barrels) of material (including gasoline, ethanol, transmix, biodiesel, renewable fuels, or other materials as allowed by Part 14) in any consecutive 12-month period.
[Basis: Cumulative Increase]

12. The owner/operator of S-38, S-40, S-42, S-43, and S-44 shall not exceed a combined total throughput of more than 10,500,000 (250,000 barrels) of materials (including gasoline, ethanol, transmix, biodiesel, renewable fuels, or other materials as allowed by Part 14) in any calendar day.
[Basis: Cumulative Increase]

13. For each month, the owner/operator S-38, S-40, S-42, S-43, and S-44 shall not store materials in S-38, S-40, S-42, S-43, and S-44 that exceed the following RVPs.

Months	RVP limit (psia)
January through April	10
May through October	6.9
November through December	10

[Basis: Cumulative Increase]

14. The owner/operator of S-38, S-40, S-42, S-43, and S-44 may store alternate liquid(s) other than those specified in Parts 11, 12, and 13,and/or usages in excess of those specified in Parts 11 and 12, provided that the owner/operator can demonstrate that the following are satisfied:
    a. Total combined POC/NPOC emissions from S-38, S-40, S-42, S-43, and S-44 do not exceed 9933 pounds in any consecutive 12-month period using AP-42 internal floating roof tank equations; and
    b. Total combined POC/NPOC emissions from S-38, S-40, S-42, S-43, and S-44 do not exceed 58 pounds in any calendar day using AP-42 internal floating roof tank equations; and
    c. 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]

15. The owner/operator shall control organic emissions from S-38, S-40, S-42, S-43, and S-44 with an internal and seamless deck floating roof using a mechanical shoe primary seal and a rim-mounted secondary seal that meet the design criteria in Regulation 8, Rule 5. Each roof fitting shall be designed to minimize roof fitting losses. The following list specifies for each tank the types of roof fittings allowed, the maximum count for each fitting, and the control technique required. Control techniques for roof fittings not included in this list shall be subject to prior District approval prior to installing the internal floating roof on the given tank.

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Not more than 30 days after the startup of S-38, S-40, S-42, S-43, and S-44; the owner/operator shall provide the Air District's Engineering Division with a final accounting the types and counts of roof fittings to be incorporated into this condition.

S-38, S-40, S-42, and S-43 (each tank):

Fitting Type and Count	Control Technique
Access hatch (24" diameter), 2 total……..	Bolted cover, gasketed
Ladder-Slotted Guidepole Combination Well, 1 total……	Ladder sleeve, gasketed sliding cover
Stub drain (1" diameter), 17 total	
Column well (20" diameter), 1 total……..	Flexible fabric sleeve seal
Column well (12" diameter), 8 total……..	Flexible fabric sleeve seal
Vacuum breaker (10" diameter), 2 total……	Weighted mechanical actuation, gasketed
Sample Pipe or Well (24" diameter), 1 total…….	Slit fabric seal 10% open area
Slotted Guidepole/Sample Well, 1 total……..…….	Gasketed sliding cover with float, sleeve, wiper

S-44:

Fitting Type and Count	Control Technique
Access hatch (24" diameter), 2 total……..	Bolted cover, gasketed
Ladder-Slotted Guidepole Combination Well, 1 total……	Ladder sleeve, gasketed sliding cover
Stub drain (1" diameter), 5 total	
Column well (24" diameter), 1 total……..	Flexible fabric sleeve seal
Vacuum breaker (10" diameter), 2 total……	Weighted mechanical actuation, gasketed
Sample Pipe or Well (24" diameter), 1 total…….	Slit fabric seal 10% open area
Slotted Guidepole/Sample Well, 1 total……..…….	Gasketed sliding cover with float, sleeve, wiper

[Basis: BACT]

16. The owner/operator shall ensure that the concentration of organic vapor in the vapor space above the internal floating roof of S-38, S-40, S-42, S-43, and S-44 shall not exceed 30 percent of its lower explosive limit (LEL). [Basis: Cumulative Increase]

17. To demonstrate compliance with Part 16, the owner/operator shall have a person conduct the following on a quarterly basis:
    a. Using an explosimeter, measure the concentration of the vapor space above the floating roof in terms of lower explosive limit (LEL), and record the reading.
    b. Conduct a visual inspection of the roof openings (including at each viewport) and the rim seal

VI. Permit Conditions

system and record findings.

c. Conduct a visual inspection of the slotted guidepole flexible enclosure system.

[Basis: Cumulative Increase]

18. To determine compliance with the above parts, the owner/operator shall maintain the following records in an Air District-approved log 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 in S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, and S-44 on a daily basis.

b. Quantities of each type of liquid loaded into Storage Tanks S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, and S-44 on a daily and monthly basis

c. The type and amount of materials loaded at S-22 Truck Rack.

d. Date of each S-22 loading event

e. Monthly throughput shall be totaled for each consecutive twelve-month period.

f. To demonstrate compliance with Part 13, material specifications or certifications from the vendor, with the liquid RVP, for each shipment of a different type of material stored in S-38, S-40, S-42, S-43, and S-44. If a mixture of different materials is stored, the RVP of the most volatile material shall be used to demonstrate compliance. Materials without available liquid RVP information from the vendor shall be assumed to be in compliance with Part 13; however, Air District staff has the discretion to collect a sample of the material stored to test the liquid RVP for compliance with Part 13.

g. To demonstrate compliance with Part 14, when storing alternate liquid(s) other than those specified in Parts 11, 12, or 13 and/or usages in excess of those specified in Parts 11 and 12, emission calculations for S-38, S-40, S-42, S-43, and S-44 shall be totaled for each consecutive twelve-month period.

h. Inspection findings and vapor space concentration measurements to demonstrate compliance with Parts 16 and 17

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, Regulation 2-1-233]S

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency 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.

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-320.3.1	Y		Gasketed cover, seal or lid with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.4.2	Y		Well with cover, seal or lid with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.4.3	Y		Gap between well and roof ≤ 1.3 cm (1/2 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.5.2	Y		Well with cover gasket, a pole sleeve, pole wiper, and internal float with gap ≤ 1.3 cm (1/2 in), or zero gap pole wiper seal	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 8-5-320.5.3	Y		Gap between well and roof ≤ 1.3 cm (1/2 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3	Y		Primary seal metallic shoe extends a minimum 61 cm (24 in) above liquid surface	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3.1	Y		Gap between shoe and tank shell is no greater than 46 cm (18 in)	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3.2	Y		Gap between tank shell and the primary seal < 3.8 cm (1 1/2 in). No continuous gap > 0.32 cm ((1/8 in) shall exceed 10% of circumference. The cumulative length of all seal gaps exceeding 1.3 cm (1/2 in) shall be ≤ 10% of circumference and the cumulative length of all seal gaps exceeding 0.32 cm (1/8 in) ≤ 40% of circumference	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion of probes up to 3.8 cm (1 ½ in) in width	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-322.3	Y		Gap between tank shell and the secondary seal shall not exceed 1.3 cm (1/2 in)	BAAQMD 8-5-401.1, 8-5-404	P/ twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-328.1.2	Y		Tank Cleaning ≥ 90% wt. emission control, POC concentration < 10,000 ppm	BAAMD 8-5-502	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Subpart Ka 40 CFR 60.112(a)(a)(1)(i)(A), (B), (C), (D)	Y		Accumulated area of gaps between tank wall and primary seal < 21.2 cm^2 per meter of tank diameter, width of any portion of gap < 1.27 cm	40 CFR 60.113(a)(a)(1)(i)(A),	P/5 yr,	Inspection, Record
POC	Subpart Ka 40 CFR 60.112(a)(b)(1)(ii)(A), (B), (C)	Y		Accumulated area of gaps between tank wall and secondary seal < 21.2 cm^2 per meter of tank diameter, width of any portion of gap < 1.27 cm	40 CFR 60.113(a)(a)(1)(i)(B)	P/1 yr,	Inspection, Record
POC	Subpart Ka 40 CFR 60.112(a)(b)(1)(iv)	Y		Emergency roof drain with slotted membrane fabric cover at least 90% of the opening area	40 CFR 60.113(a)(a)(1)(i)(A),	P/5 yr,	Inspection, record
POC	BAAQMD Condition # 6185, part 20	Y		POC concentration < 1% or 10,000 ppm	BAAQMD Condition # 6185, part 22	C	Hydro-carbon concentra-tion monitor
POC	BAAQMD Condition # 12677, part 1	Y		POC ≤ 73 tons in any consecutive 12 month period, nor 11644 pounds per day for all sources	BAAQMD Condition # 12677, part 18	P/ A	Records
POC	BAAQMD Condition # 12677, part 7	N		TVP ≤ 11.0 psia	BAAQMD Condition # 12677, part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1, S-2, S-3, S-5, AND S-6
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 12677, part 3	Y		CO $\leq$ 95 tons in any consecutive 12 month period for all sources	BAAQMD Condition # 12677, part 18	P/A	Records
NOx	BAAQMD Condition # 12677, part 4	Y		NOx $\leq$ 95 tons in any consecutive 12 month period, nor 1923 pounds per day for all sources	BAAQMD Condition # 12677, part 18	P/A	Records
SO2	BAAQMD Condition # 12677, part 5	Y		SO2 $\leq$ 45.4 tons in any consecutive 12 month period, nor 7918 pounds per day for all sources	BAAQMD Condition # 12677, part 18	P/A	Records
PM10	BAAQMD Condition # 12677, part 6	Y		PM10 $\leq$ 23 tons in any consecutive 12 month period, nor 281 pounds per day for all sources	BAAQMD Condition # 12677, part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, S-24, S-25 AND S-30
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-320.3.1	Y		Gasketed cover, seal or lid with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.4.2	Y		Well with cover, seal or lid with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.4.3	Y		Gap between well and roof ≤ 1.3 cm (1/2 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.5.2	Y		Well with cover gasket, a pole sleeve, pole wiper, and internal float with gap ≤ 1.3 cm (1/2 in), or zero gap pole wiper seal	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
	BAAQMD 8-5-320.5.3	Y		Gap between well and roof ≤ 1.3 cm (1/2 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3	Y		Primary seal metallic shoe extends a minimum 61 cm (24 in) above liquid surface	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3.1	Y		Gap between shoe and tank shell is no greater than 46 cm (18 in)	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, S-24, S-25 AND S-30
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-321.3.2	Y		Gap between tank shell and the primary seal ≤ 3.8 cm (1 1/2 in). No continuous gap > 0.32 cm ((1/8 in) shall exceed 10% of circumference. The cumulative length of all seal gaps exceeding 1.3 cm (1/2 in) shall be ≤ 10% of circumference and the cumulative length of all seal gaps exceeding 0.32 cm (1/8 in) ≤ 40% of circumference	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion of probes up to 3.8 cm (1 ½ in) in width	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-322.3	Y		Gap between tank shell and the secondary seal shall not exceed 1.3 cm (1/2 in)	BAAQMD 8-5-401.1, 8-5-404	P/10 yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-328.1.2	Y		Tank Cleaning > 90% wt. emission control, POC concentration < 10,000 ppm	BAAMD 8-5-502	P/A	Source test
POC	Subpart Kb 40 CFR 60.113b (b)(2)(ii)	Y		0.32 cm diameter uniform probes	40 CFR 60.113b(b)(1)(i)	P/5 yr, E/emptied and degassed	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, S-24, S-25 AND S-30
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Subpart Kb 40 CFR 60.113b (b)(4)(i)	Y		Accumulated area of gaps between tank wall and mechanical shoe or liquid mounted primary seal < 212 cm^2 per meter of tank diameter, width of any portion of gap < 3.81 cm	40 CFR 60.113b(b) (1)(i)	P/5 yr, E/emptied and degassed	Inspection
POC	Subpart Kb 40 CFR 60.113b(b) (4)(ii)(B)	Y		Accumulated area of gaps between tank wall and secondary seal < 21.2 cm^2 per meter of tank diameter, width of any portion of gap < 1.27 cm	40 CFR 60.113b(b) (1)(i)	P/5 yr, E/emptied and degassed	Inspection
POC	BAAQMD Condition #6185, part 20	Y		POC concentration < 1% or 10,000 ppm	BAAQMD Condition #6185, part 22	C	Hydro-carbon concentra-tion monitor
POC	BAAQMD Condition #12677, part 1	Y		POC ≤ 73 tons in any consecutive 12 month period, nor 11644 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/ A	Records
POC	BAAQMD Condition #12677, part 7	N		TVP ≤ 11.0 psia	BAAQMD Condition #12677, part 18	P/A	Records
CO	BAAQMD Condition #12677, part 3	Y		CO ≤ 95 tons in any consecutive 12 month period for all sources	BAAQMD Condition #12677, part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, S-24, S-25 AND S-30
EXTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition #12677, part 4	Y		NOx ≤ 95 tons in any consecutive 12 month period, nor 1923 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records
SO2	BAAQMD Condition #12677, part 5	Y		SO2 ≤ 45.4 tons in any consecutive 12 month period, nor 7918 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records
PM10	BAAQMD Condition #12677, part 6	Y		PM10 ≤ 23 tons in any consecutive 12 month period, nor 281 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-22 – GASOLINE LOADING RACKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-6-301	Y		POC emission ≤ 21 grams per cubic meter (0.17 lb/1000 gal) loaded	BAAQMD Condition #12677, part 8D	P/bi-annual	Source Test
POC	BAAQMD 8-6-304	Y		POC emission ≤ 21 grams per cubic meter (0.17 lb/1000 gal) deliveries to storage tanks	BAAQMD Condition #12677, part 8D	P/bi-annual	Source Test
POC	BAAQMD 8-33-301	Y		POC Emission ≤ 0.04 lb/1000 gal loaded	BAAQMD Condition #12677, part 8D	P/bi-annual	Source test
POC	BAAQMD 8-33.309	Y		Tank gauge pressure ≤ 46 cm (18 inch) of water column	N	N	
POC	Subpart R 40 CFR 63.422(b)	Y		TOC ≤ 10 milligram per liter loaded	BAAQMD Condition #12677, part 8D	P/bi-annual	Source test
POC	Subpart XX 40 CFR 60.502(c)	Y		Emission ≤ 80 milligram/liter	BAAQMD Condition #12677, part 8B	C	Combustible gas detector
POC	Subpart XX 40 CFR 60.502(h)	Y		Tank gauge pressure ≤ 4,500 pascals (450 mm of water)	40CFR 60.503(d), 60.505(c)	P/M	Pressure measurement device

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-22 – GASOLINE LOADING RACKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #12677 part, 1	Y		POC ≤ 73 tons in any consecutive 12 month period, or ≤ 11644 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records
POC	BAAQMD Condition #12677, part 8A	Y		POC ≤ 0.0.04 lb/1000 gallon loaded	BAAQMD Condition #12677, part 8D	P/bi-annual	Source test
POC	BAAQMD Condition #12677 part, 8B	Y		Audible and visible alarm detector ≤ 4% hydrocarbon	BAAQMD Condition #12677, part 8C	C	Combustible gas detector
POC	BAAQMD Condition #12677, part 8F	Y		Switching between carbon bed ≤ 30 mins	BAAQMD Condition #12677, part 8F	P/ each switch	Records
TOC	BAAQMD Condition # 24901 Part 4	Y		TOC > 100 ppm	BAAQMD Condition # 24901 Part 3	P/Q	Records
TOC	BAAQMD Condition # 24901 Part 5	Y		TOC > 500 ppm	BAAQMD Condition # 24901 Part 3	P/Q	Records
CO	BAAQMD Condition # 12677, part 3	Y		CO ≤ 95 tons in any consecutive 12 month period for all sources	BAAQMD Condition #12677, part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-22 – GASOLINE LOADING RACKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition #12677, part 4	Y		NOx ≤ 95 tons in any consecutive 12 month period, or ≤ 1923 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records
SO2	BAAQMD Condition #12677, part 5	Y		SO2 ≤ 45.4 tons in any consecutive 12 month period, or ≤ 7918 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records
PM10	BAAQMD Condition #12677, part 6	Y		PM10 ≤ 23 tons in any consecutive 12 month period, or ≤ 281 pounds per day for a all sources	BAAQMD Condition #12677, part 18	P/A	Records

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-23 – OIL/WATER SEPARATOR
S-26 – WATER STORAGE POND

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #12677, part 1	Y		POC ≤ 73 tons in any consecutive 12 month period, nor 11644 pounds per day for all sources	BAAQMD Condition #12677, Part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-27 – MARINE VESSEL LOADING/UNLOADING TERMINAL

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-44-304	Y		POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or emission controlled ≥ 95% wt.	BAAQMD Condition #6185, part 22	C	Hydrocarbon Concentration monitor
POC	SIP BAAQMD 8-44-301.1	Y		POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	BAAQMD Condition #6185, part 22	C	Hydrocarbon Concentration monitor
POC	SIP BAAQMD 8-44.301.2	Y		Controlled ≥ 95% weight	BAAQMD Condition #6185, part 22	C	Hydrocarbon Concentration monitor
POC	Subpart Y 40 CFR 63.562(b)(1)(iii)	Y		Vapor tight	40 CFR 63.563(a)(4)	P/A	Leak test
POC	Subpart Y 40 CFR 63.562(b)(2)	Y		MACT existing source, controlled ≥ 97% weight	BAAQMD Condition #6185, part 22	C	Hydrocarbon Concentration monitor
POC	Subpart Y 40 CFR 63.562(b)(2)	Y		MACT existing source, controlled ≥ 97% weight	BAAQMD Condition #6185, part 27; 40 CFR 63 Section 63.565(d)	P/A	Source Test
POC	Subpart Y 40 CFR 63.562(c)(3)	Y		RACT combustion controlled ≥ 98%, or recovery controlled ≥ 95% weight, or	40 CFR 63.563(b)(6)(i)(B), 63.564(a)(3)	C	Vacuum regeneration time and vacuum pressure

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-27 – MARINE VESSEL LOADING/UNLOADING TERMINAL

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	Subpart Y 40 CFR 63.562(c)(4)	Y		VOC ≤ 1000 ppmv	40 CFR 63.564(g)(1), BAAQMD Condition #6185, part 14	C	Combustible gas detector
POC	BAAQMD Condition #6185, part 1	Y		Switching time between carbon canister ≤20 mins	BAAQMD Condition #6185, part 14	P/each switch	Records
POC	BAAQMD Condition # 6185 part, 4	Y		Total hydrocarbon carbon canister ≤ 47.6 million barrels in any consecutive 12 month period	BAAQMD Condition #12677, part 18	P/A	Record
POC/ NPOC	BAAQMD Condition # 6185 part, 4a	Y		POC/NPOC ≤ 47,600 pounds in any consecutive 12 month period POC/NPOC ≤ 10 pounds in any hour	BAAQMD Condition #6185, part 4a	P/A and H	Records
POC	BAAQMD Condition #6185, part 5	Y		Carbon units ≤ 1 pound of POC per 1000 barrels per day	BAAQMD Condition #6185, part 22	C	Hydrocarbon Concentration monitor
POC	BAAQMD Condition #6185, part 6	N		Benzene emissions ≤ 0.15 pound per day	BAAQMD Condition #6185, part 7	P/bi-annual	Analysis
POC	BAAQMD Condition #6185, part 25	Y		Pumping rate ≤ 10,000 barrels per hour	BAAQMD Condition #6185, part 26	P/H	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-27 – MARINE VESSEL LOADING/UNLOADING TERMINAL

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #12677, part 2	Y		POC ≤ 23.8 tons in any consecutive 12 month period	BAAQMD Condition #12677, part 18	P/A	Records
POC	BAAQMD Condition #12677, part 11	Y		Max registered deadweight ≤ 139,000 ton	BAAQMD Condition #12677, part 18	P/A	Records
SO2	BAAQMD Condition #12677, part 12	Y		SO2 ≤ 2000 ppmv	BAAQMD Regulation 9-1-303	P/A	Records
PM10	BAAQMD Condition #12677, part 6	Y		PM10 ≤ 23 tons in any consecutive 12 month period, nor 281 pounds per day	BAAQMD Condition #12677, part 18	P/D, P/A	Records

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-32, S-33, S-34, S-35, S-36, S-37, S-39, S-41~~S-32 TO S-44~~ - FIXED ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-303.1	Y		PV valve set pressure within 10% of working pressure or at least 0.5 psig	BAAQMD 8-5-403	P/SA	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-32, S-33, S-34, S-35, S-36, S-37, S-39, S-41~~S-32 TO S-44~~ - FIXED ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-303.2	Y		gas tight (< 500 ppm) except when operating pressure exceeds the valve set pressure	BAAQMD 8-5-403	P/SA	Inspection
POC	BAAQMD 8-5-306	Y		Emission controlled ≥ 95% weight	BAAQMD Condition # 6158, part 22, Section 3b	C	Hydrocarbon concentration monitor
POC	BAAQMD 8-5-328.1.2	Y		Tank cleaning ≥ 90% wt. emission control, POC concentration < 10,000 ppm	BAAQMD Condition # 6158, part 22	P/E	Hydrocarbon concentration monitor
POC	Subpart Kb 40 CFR 60.112b (a)(3)(i)	Y		Closed vent < 500 ppm	BAAQMD Condition # 6158, part 22	C	Hydrocarbon concentration monitor
POC	Subpart Kb 40 CFR 60.112b (a)(3)(ii)	Y		Controlled ≥ 95%	BAAQMD Condition # 6158, part 22	C	Hydrocarbon concentration monitor
POC	BAAQMD Condition #6185, part 1	Y		Switching time between carbon canister ≤20 mins	BAAQMD Condition #6185, part 14	P/each switch	Records
POC	BAAQMD Condition #6185, part 2	Y		Hydrocarbon liquid loaded ≤ 18.8 million barrels in any consecutive 12 month period	BAAQMD Condition #12677, part 18	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-32, S-33, S-34, S-35, S-36, S-37, S-39, S-41~~S-32 TO S-44~~ - FIXED ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC/ NPOC	BAAQMD Condition # 6185 part 2a	Y		POC/NPOC ≤ 18,800 pounds in any consecutive 12 month period	BAAQMD Condition #6185, part 2a	P/A	Records
POC	BAAQMD Condition #6185, part 3	Y		Hydrocarbon liquid loaded ≤ 250,000 barrels per day	BAAQMD Condition #6185, part 3	P/D	Records
POC/ NPOC	BAAQMD Condition # 6185 part 3a	Y		POC/NPOC ≤ 250 pounds in any calendar day	BAAQMD Condition #6185, part 3a	P/D	Records
POC	BAAQMD Condition #6185, part 5	Y		Carbon units ≤ 1 pound of POC per 1000 barrels per day	BAAQMD Condition #6185, part 14	C	Combustible gas detector
POC	BAAQMD Condition #6185, part 6	N		Benzene emissions ≤ 0.15 pound per day	BAAQMD Condition #6185, part 7	P/Semi-annual	Analysis
POC	BAAQMD Condition #6185, part 7	N		Benzene concentration ≤ 2 % weight	BAAQMD Condition #6185, part 7	P/Semi-annual	Analysis
POC	BAAQMD Condition #6185, part 11	Y		Valves and Flanges comply with Regulation 8-18	BAAQMD 8-18-401	P/Q	Inspection
POC	BAAQMD Condition #6185, part 16	Y		Tank degassing ≤ 6 in any consecutive 12 month periods	BAAQMD Condition #6185, part 24	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-32, S-33, S-34, S-35, S-36, S-37, S-39, S-41~~S-32 TO S-44~~ - FIXED ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #6185, part 20	Y		POC concentration < 1% or 10,000 ppm	BAAQMD Condition #6185, part 22	C	Hydrocarbon Concentration monitor
POC	BAAQMD Condition #12677, part 1	Y		POC ≤ 73 tons in any consecutive 12 month period, nor ≤ 11644 pounds per day for all sources	BAAQMD Condition #12677, part 18	P/A	Records
POC	BAAQMD Condition #12677, part 9	Y		Pumps, Compressors, Valves and Flanges subject to Regulation 8-18	BAAQMD 8-18-401	P/Q	Inspection

Table VII – G
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-320.3.1	Y		Gasketed cover, seal or lid with gap < 0.32 cm (1/8 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-320.4.2	Y		Well with cover, seal or lid with gap < 0.32 cm (1/8 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-320.4.3	Y		Gap between well and roof < 1.3 cm (1/2 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-320.5.2	Y		Well with cover gasket, a pole sleeve, pole wiper, and internal float with gap < 1.3 cm (1/2 in), or zero gap pole wiper seal	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-320.5.3	Y		Gap between well and roof < 1.3 cm (1/2 in)	BAAQMD 8-5-401.2, 8-5-404	P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3	Y		Primary seal metallic shoe extends a minimum 61 cm (24 in) above liquid surface	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3.1	Y		Gap between shoe and tank shell is no greater than 46 cm (18 in)	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-321.3.2	Y		Gap between tank shell and the primary seal < 3.8 cm (1 1/2 in). No continuous gap > 0.32 cm ((1/8 in) shall exceed 10% of circumference. The cumulative length of all seal gaps exceeding 1.3 cm (1/2 in) shall be < 10% of circumference and the cumulative length of all seal gaps exceeding 0.32 cm (1/8 in) < 40% of circumference	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion of probes up to 3.8 cm (1 ½ in) in width	BAAQMD 8-5-401.1, 8-5-404	P/twice/yr P/twice/yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-5-322.3	Y		Gap between tank shell and the secondary seal shall not exceed 1.3 cm (1/2 in)	BAAQMD 8-5-401.1, 8-5-404	P/ twice/yr P/twice/yr	Inspection Certification
POC	BAAQMD 8-5-328.1.2	Y		Tank Cleaning > 90% wt. emission control, POC concentration < 10,000 ppm	BAAMD 8-5-502	P/A	Source test
POC	60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	60.113b (a)(3) & (4)	periodic initially & each time emptied & degassed, at least every 5 yr	visual inspection
POC	60.113b (a)(1) & (4)	Y		Primary rim-seal standards; no holes or tears	60.113b (a)(3) & (4)	periodic initially & each time emptied & degassed & prior to refilling tank with VOL, at least every 5 yr	visual inspection
POC	60.113b (a)(1) & (4)	Y		Secondary rim-seal standards; no holes or tears	60.113b (a)(3) & (4)	periodic initially & each time emptied & degassed & prior to refilling tank with VOL, at least every 5 yr	visual inspection
POC	60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	60.113b (a)(2) & (3)	periodic initially & annually	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	60.116b (c)	Y		Record of liquid stored and true vapor pressure	60.116b (c) & (e)	periodic upon change of service	records
POC		Y		Record of each initial, annual, and 10-year tank inspection	60.115b(a)(2)	periodic for each tank inspection	records
POC		Y		Report of non-compliant annual inspection for tanks with secondary seals	60.115b(a)(4)	periodic within 30 days of tank inspection	report
POC	BAAQMD Condition #6185, part 2	Y		Hydrocarbon liquid loaded < 18.8 million barrels in any consecutive 12 month period	BAAQMD Condition #12677, part 18	P/A	Records
POC/ NPOC	Part 2a	Y		POC/NPOC < 18,800 pounds in any consecutive 12 month period	BAAQMD Condition #6185, part 2a	P/A	Records
POC	BAAQMD Condition #6185, part 3	Y		Hydrocarbon liquid loaded < 250,000 barrels per day	BAAQMD Condition #6185, part 3	P/D	Records
POC/ NPOC	BAAQMD Condition # 6185 part 3a	Y		POC/NPOC < 250 pounds in any calendar day	BAAQMD Condition #6185, part 3a	P/D	Records
POC	BAAQMD Condition #6185, part 7	N		Benzene concentration < 2 % weight	BAAQMD Condition #6185, part 7	P/Semi-annual	Analysis
POC/ NPOC	BAAQMD Condition #27277, part 11	Y		Materials loaded < 18.8 million barrels in any consecutive 12 month period	BAAQMD Condition #27277, part 16	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Source-specific Applicable Requirements
S-38, S-40, S-42, S-43, S-44 – INTERNAL FLOATING ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC/ NPOC	BAAQMD Condition #27277, part 12	Y		Materials loaded < 250,000 barrels in any calendar day	BAAQMD Condition #27277, part 16	P/D	Records
POC/ NPOC	BAAQMD Condition #27277, part 13	Y		RVP≤10 psia (January-April and November-December) RVP≤6.9 psia (May-October)	BAAQMD Condition #27277, part 16	P	Records
POC/ NPOC	BAAQMD Condition #27277, part 14	Y		POC/NPOC ≤ 9933 pounds in any consecutive 12 month period POC/NPOC ≤ 58 pounds in any calendar day	BAAQMD Condition #27277, part 16	P/A and D	Records

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Regulation 8-18-301	Y		General equipment leak ≤ 100 ppm	BAAQMD Regulation 8-18-401.2	P/Q	Inspection
POC	BAAQMD Regulation 8-18-302	Y		Valve leak ≤ 100 ppm	BAAQMD Regulation 8-18-401.2	P/Q	Inspection
POC	BAAQMD Regulation 8-18-303	Y		Pump and compressor leak ≤ 500 ppm	BAAQMD Regulation 8-18-401.2	P/Q	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Regulation 8-18-304	Y		Connection leak ≤ 100 ppm	BAAQMD Regulation 8-18-401.2e	P/Q	Inspection
POC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm	BAAQMD Regulation 8-18-401.2	P/Q	Inspection
POC	BAAQMD Regulation 8-18-306.1	Y		Leak < 10,000 ppm and mass emissions determined within 30 days of placing on non-repairable list and APCO notified.	None	N	
POC	BAAQMD Regulation 8-18-306.2	Y		Awaiting repair Valves and connectors≤ 0.15% Pressure Relief ≤ 0.5% Pump and Connector ≤ 0.5%	BAAQMD Regulation 8-18-401.5	P/24 hours	Inspection
POC	BAAQMD 8-18-306.4	N		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	None	N	
POC	SIP BAAQMD Regulation 8-18-302	Y		Valve leak ≤ 100 ppm	SIP BAAQMD Regulation 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Regulation 8-18-303	Y		Connector leak ≤ 100 ppm	SIP BAAQMD Regulation 8-18-401.3	P/Q	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP BAAQMD Regulation 8-18-304.1	Y		Valve prepared within 5 years or next scheduled turnaround	SIP BAAQMD Regulation 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Regulation 8-18-304.2	Y		Awaiting repaired valves ≤ 0.5%	SIP BAAQMD Regulation 8-18-401.6	P/24 hours	Inspection
POC	SIP BAAQMD Regulation 8-18-305	Y		New or replaced valve leak ≤ 100 ppm for 4 consecutive quarters	SIP BAAQMD Regulation 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Regulation 8-18-306	Y		Repeat valve , connector leak must meet SIP BAAQMD Regulation 8-18-304 & 8-18-305	SIP BAAQMD Regulation 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Regulation 8-25-302	Y		Pump leak ≤ 500 ppm	SIP BAAQMD Regulation 8-25-401.2 & Regulation 8-25-403	P/Q P/D	Measure leaks Visual Inspection
POC	SIP BAAQMD Regulation 8-25-303	Y		Compressor leak ≤ 100 ppm	SIP BAAQMD Regulation 8-25-401.2 & Regulation 8-25-403	P/Q P/D	Measure leaks Visual Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	SIP BAAQMD Regulation 8-25-304.1	Y		Pump or compressor prepared within 5 years or next scheduled turnaround	SIP BAAQMD Regulation 8-25-401.1 & Regulation 8-25-402	P/7 days	Measure leaks Inspection Plan
POC	SIP BAAQMD Regulation 8-25-304.2	Y		Awaiting repaired valves ≤ 1.0%	SIP BAAQMD Regulation 8-25-401.1 & Regulation 8-25-402	P/7 days	Measure leaks Inspection Plan
POC	SIP BAAQMD Regulation 8-25-305	Y		New or replaced pump and compressor leak ≤ 500 ppm for 4 consecutive quarters	SIP BAAQMD Regulation 8-25-401.2 & Regulation 8-25-403	P/Q P/D	Measure leaks Visual Inspection
POC	SIP BAAQMD Regulation 8-25-306	Y		Repeat pump , compressor leak must meet SIP BAAQMD Regulation 8-25-304 & 8-25-305	SIP BAAQMD Regulation 8-25-401.2 & Regulation 8-25-403	P/Q P/D	Measure leaks Visual Inspection
POC	BAAQMD Condition #6185, part 10	Y		Pumps comply with Regulation 8-18	BAAQMD 8-18-401	P/Q	Inspection
POC	BAAQMD Condition #6185, part 11	Y		Valves and Flanges comply with Regulation 8-18	BAAQMD 8-18-401	P/Q	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition #12677, part 9	Y		Pumps, Compressors, Valves and Flanges subject to Regulation 8-18	BAAQMD 8-18-401	P/Q	Inspection

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

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	BAAQMD Regulation 6-1-401	N	N/A
Visible Emissions	SIP Regulation 6-303.1	Y		≥ Ringelmann 2.0 for no more than 3 minutes/hour	SIP Regulation 6-401	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	N		0.15 gr/dscf	None	N	N/A
FP	SIP Regulation 6-310	Y		0.15 gr/dscf	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S-48 EMERGENCY STANDBY GENERATOR SET FOR FIRE PUMP

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD Regulation 9-1-301	Y		Ground Level Concentration > 0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes or 0.05 ppm averaged over 24 hrs	BAAQMD 9-1-501	P/ As required by APCO	Area Monitoring
SO_2	BAAQMD Regulation 9-1-302	Y		≤ 300 ppm SO2, dry	None	N	None
SO_2	BAAQMD Regulation 9-1-304	Y		Fuel Sulfur Limit 0.5%	None	P/M	Vendor Certification
SO2	40 CFR 60.4207(a)	Y		Use diesel fuel that meets500 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
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S-48 Emergency Standby Generator Set for Fire 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 # 22850, Part 1	Y		50 hours per year	BAAQMD Condition # 22805, Parts 3& 4	C	Totalizing meter
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
NMHC + NOx	40 CFR 60.4205(c)	Y		4.8 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per manu-facturerer's instructions
CO	40 CFR 60.4205(c)	Y		2.6 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per manu-facturerer's instructions
PM	40 CFR 60.4205(c)	Y		0.15 g/bhp-hr	40 CFR 60.4211(a)	C	Operate and maintain per manu-facturerer's instructions

VIII. TEST METHODS

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

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 6-1-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-1-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-1-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-1-310.3	Particulate Weight Limitation for Heat Transfer Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-1-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD Regulation 8-5-304	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 Regulation 8-5-311.3	VOC emissions	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
BAAQMD Regulation 8-5-328.2	VOC emissions for tank cleaning	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD Regulation 8-5-320.3	Pressure vacuum leak concentration	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-6-301, 304	Efficiency and rate determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
BAAQMD Regulation 8-6-110	Analysis of samples, true vapor pressure	Manual of Procedures, Volume III, Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks.
BAAQMD Regulation 8-8-301, 302	Vapor tight cover	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-18-302, 8-18-303	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-18-306	Determination of mass emissions	EPA Protocol for equipment leak emission estimates, Chapter 4, Mass Emission Sampling, (EPAA-453/R-95-017) November 1995
BAAQMD Regulation 8-25-301-303	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-33-203	Analysis of samples	Manual of Procedures, Volume III, Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD Regulation 8-33-301	Emission rate determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
BAAQMD Regulation 8-33-305	Vapor tight – delivery vehicles	Manual of Procedures, Volume IV, ST-33, Ethanol, Integrated Sampling
BAAQMD Regulation 8-33-309	Vapor recovery system – loading racks	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-44-304.1	Determination of emission factors and emission control equipment efficiencies	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit; or EPA Method 25, Determination of total gaseous nonmethane oganic emissions as carbon; or EPA Method 25A, Determination of total gaseous organic using flame ionization analyzer; or alternate method approved in writing by the APCO and EPA.
BAAQMD Regulation 8-44-305.1 or 305.2	Leak Determinations	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks; or alternate method approved in writing to APCO and EPA.
SIP BAAQMD Regulation 8-44-301.1	Determination of emissions	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
SIP BAAQMD Regulation 8-44-301.2	Efficiency and mass emission determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
SIP BAAQMD Regulation 8-44-303	Leak test and gas tight determination	EPA reference method 21, Determination of Volatile Organic Compound Leaks
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.
Subpart Kb 40 CFR 60.112b	Vapor Pressure	ASTM Method D2879-83
Subpart Kb 40 CFR 60.112b(a)(3)	Visual inspection	60 Subpart VV, 60.485(b)
Subpart XX 40 CFR 60.502(b)(c), 6-.502(h)	Monitor for leakage	EPA reference method 21, Appendix A, 40 CFR part 60, Determination of Volatile Organic Compound Leaks

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart XX 40 CFR 60.502(h)	Delivery tank pressure	EPA reference method 27, Determination of vapor tightness of gasoline delivery tanks using pressures vacuum test
Subpart R 40 CFR 63.422(b), or 60.112(a)(3)(ii)	Emission standard	40 CFR 60.503
Subpart R 40 CFR 63.422(c)(1), 63.422(2)	Annual certificate test for cargo tank (internal vapor valve)	Method 27, Determination of vapor tightness of gasoline delivery tanks using pressures vacuum test; and Subpart R, 63.425(e)(1), (2)
Subpart R 40 CFR 63.422(c)(1), 63.422(2)(ii)	Leak detection test	Method 21, Determination of Volatile Organic Compound Leaks; and Subpart R, 63.425(f)(1), (2)
Subpart R 40 CFR 63.422(c)(1), 63.422(2)(ii)	Nitrogen pressure decay test	Subpart R, 63.425(g)(1), (2), (3), (4), (5)
Subpart R 40 CFR 63.422(c)(1), 63.422(2)(ii)	Continues performance pressure decay test	Method 27, Determination of vapor tightness of gasoline delivery tanks using pressures vacuum test, and Subpart R, 63.425(h)
Subpart Y 40 CFR 63.563(a)(3)	Pressure/vacuum settings of marine tank vessel's vapor system	Subpart Y, 63.565(b)(1),(2),(3)
Subpart Y 40 CFR 63.562(b)(1)(iii)	Vapor tightness test	Subpart Y, 63.565(c)(1),(2)

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Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Subpart Y 40 CFR 63.562(b)(2), 63.562(3), 63.562(4); and 63.562(c)(3), 56263. (4)	Combustion and recovery test	Subpart Y, 63.565(d)(1) through (10)

IX. PERMIT SHIELD

Not applicable.

X. REVISION HISTORY

Initial Issuance (Application #25866): March 12, 2001

Minor revision (Application # 11862, NSR, App. # 11862): December 29, 2005

- Condition # 6184, Part 3 is changed to increase the liquid loading into storage tanks S-32 through S-44 from 145,000 barrels per day to 250,000 barrels per day under District's new source review application # 11861.
- Condition # 6184, Part 9, the statement "150 lb/day, nor shall the Cumulative Increase from this facility exceed" is deleted to be consistent with the change from Part 3 under District's new source review application # 11861.
- Modified Tables IV-A, B, C, F, I, and Tables VII-A, B, C, F, and H that were associated with the amended Regulation 8-5 - Storage of Organic Liquids, which was adopted on 11/27/02.
- Remove the SIP requirements of Regulation 8-5 in Tables IV-A, B, C, F, I, and Tables VII-A, B, C, F, H because the current rule was adopted into SIP in June 5, 2003.
- The definition of NO2 - Nitrogen Dioxide was added to the glossary.

Renewal Title V Permit (Application # 13149): July 11, 2007

- Change of plant address
- Change of responsible official
- The company has new numbers for some of the tanks.
- The diesel emergency generator (S-46) will be added to the equipment list due to loss of exemption.
- Source S-45 storage tank was shut down and will be removed from the equipment list.
- Abatement A-423, Thermal Oxidizer Vapor Combustion Unit) was for tank degassing operation and removed from the site; therefore, it will be removed from the equipment list.
- The new provisions of Regulation 8-44 Marine Tank Vessel Operations will be added since this Regulation was revised and adopted into the District Rules and Regulations on December 7, 2005.
- The Compliance Assurance Monitoring requirements will be added to fixed roof storage tanks (S-32 through S-44), marine vessel loading (S-27) and gasoline loading racks (S-22).
- The monthly marine vessel activity report will be modified to quarterly to reduce the amount of paper works without having any significant environmental impact.
- The vapor pressure of products stored in storage tanks will be changed from 8.3 pisa to 11.0 psia.
- All reference to unsegregated ballast will be removed because the U.S. Coast Guard

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does not allow unsegregated ballasting ship to enter the San Francisco bay anymore.

- S-27, Marine Vessel Loading will be changed from 3 fillers to 2 fillers.
- Condition 12677, Part 7, the vapor pressure of products stored in storage tanks will be changed from 8.3 psia to 11.0 psia.
- Condition 12677, Part 19, the marine vessel activity reporting will be modified from monthly to quarterly.
- The requirements of Regulation 8-5-322.5 and 322.6 will be added to Table IV-A because the company replaced the secondary seals for Tanks S-1 through S-6, S-12, S-15, S-24, S-24 and S-30 in March 10, 2003.
- The requirements of Regulation 8-6 – Organic Liquid Bulk Terminals and Bulk Plants will be added to Table IV-D, Table VII-D, and Table VIII-Test Method to reflect the loading operation of organic materials other than gasoline.
- Condition 6185, Part 14 deleted the requirement of two hydrocarbon analyzers at each carbon system on Table IV-I.
- To clarify hydrocarbon liquids in Parts 2, 3, 4, and 7, the definition of "non-exempt organic compound" will be added to Condition 6185 as defined in Regulation 2-1-123.
- Other condition clarifications as listed in Section VI of the SOB.

Renewal Title V Permit (Application # 24048): September 27, 2016

- Removed the parenthesis from Shore Terminal and LLC from company name on Title V permit.
- Change name and telephone information of facility contact.
- Change address of the Bay Area Air Quality Management District in Section I.F (Monitoring Reports).
- Updating/correcting dates of rule adoptions or SIP approvals in Sections I, III, and IV.
- Source S-46 Emergency Diesel Generator was shut down and removed from Sections II, IV, VI, and VII of the Title V permit.
- Source S-11 Tank 101 was shut down and removed from Sections II, IV, VI, and VII of the Title V permit.
- Source S-47 Emergency Standby Generator Set was added as a significant source in Section IIC (Application # 22748)
- Source S-48 Emergency Standby Generator Set for Fire Pump is a new permitted source (Application # 26088) and it was added to Sections II, IV, VI, and VII of the Title V permit.
- Amend Condition Number 6185 Part 1 to change from a switch time of 17 to 20 minutes (Application # 15326) and reflected change in Section VII for source.
- Amend Condition Number 6185 Part 16 to include term "using A-421 and A-422" (Application # 24953).

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- Amended Condition Number 6185 to remove outdated parts of the conditions and to clarify the operation of degassing operations. Also removed those outdated parts from Tables IV and VII.
- Part 27 was added to Condition 6185 to require annual emissions source test on equipment A-421 and A-22 to demonstrate NESHAP section 63.563(b)6 requirements.
- Amended Condition Number 12677 to correct some typos.
- Part 8(A) of Condition 12677 has been amended to reflected the updated limit specified basis in Regulation 8-33 from 0.08 lb/Mgal to 0.04 lb/Mgal (8-33-301.2).
- Removed Part 11 of Condition 12677 as applicable requirement from all tank sources. It is a deadweight limit on the marine vessels loaded at S-27 so the part mainly applies to S-27.
- Add Condition # 24901 (not including Parts 1 and 2 which were completed) to Section IV and add reference to Table IV and VII for S-22 Truck Loading Rack (Application # 22960).
- Sources S-24 and S-25 External Floating Roof Tanks were added to Table IV-B since their requirements are the same of those S-12, S-15, and S-30.
- Updated the regulatory requirements of Tables IV and Tables VII.
- Added additional terms and updated terms in glossary.

Significant and minor revisions (Application # 30713, NSR, App. # 31036): ~~June~~July XX, 2022

- The source descriptions for S-38, S-40, S-42, S-43, and S-44 in Table II-A were revised to reflect the conversion of these tanks from fixed roof tanks into internal floating roof tanks and reflect the materials stored in these tanks.
- Permit Condition 27277 was added to Table II-A for S-38.
- NSR Application 30713 was added to Table II-A for S-38, S-40, S-42, S-43, and S-44.
- S-38, S-40, S-42, S-43, and S-44 were removed from the "Sources Controlled" column in Table II-B for A-421 and A-422 since these tanks are no longer required to be abated by A-421 and A-422.
- The POC/NPOC hourly and annual emissions limits in Permit Condition #6185 Part 4a were added to Table IV-F for S-27, Marine Vessel Loading/Unloading Terminal.
- Part 27 was added to Table IV-F since it was previously omitted.
- Table IV-G description was revised to remove S-38, S-40, S-42, S-43, and S-44.
- The POC/NPOC daily emissions limit in Permit Condition #6185 Part 2a and annual emissions limit in Permit Condition #6185 Part 3a were added to Table IV-G for tanks S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, and S-41.
- Table IV-H was added for S-38, S-40, S-42, S-43, and S-44, which are being converted from fixed roof tanks into internal floating roof tanks.
- Part 2a of Permit Condition 6185 was added to clarify that S-32 through S-44 storage tanks are allowed to exceed the annual throughput limit of 18.8 million barrels in Part 2

X. Revision History

as long as S-32 through S-44 do not exceed a total combined POC emissions limit of 18,800 pounds in any consecutive 12-month period and that any increase in TAC emissions due to the higher throughput does not result in total TAC emissions exceeding any risk screening trigger level in Table 2-5-1 of Regulation 2-5. A recordkeeping condition was added as well.

- Part 3a of Permit Condition 6185 was added to clarify that S-32 through S-44 storage tanks are allowed to exceed the daily throughput limit of 250,000 barrels in Part 3 as long as S-32 through S-44 do not exceed a total combined POC emissions limit of 250 pounds in any calendar day and that any increase in TAC emissions due to the higher throughput does not result in total TAC emissions exceeding any risk screening trigger level in Table 2-5-1 of Regulation 2-5. A recordkeeping condition was added as well.
- Part 4a of Permit Condition 6185 was added to clarify that S-27 Marine Vessel Loading is allowed to exceed the annual throughput limit of 47.6 million barrels in Part 4 as long as S-27 does not exceed a total combined POC emissions limit of 47,600 pounds in any consecutive 12-month period and that any increase in TAC emissions due to the higher throughput does not result in total TAC emissions exceeding any risk screening trigger level in Table 2-5-1 of Regulation 2-5. A recordkeeping condition was added as well.
- Part 26 of Permit Condition 6185 was revised to clarify that the facility is allowed to transfer renewable/alternative jet fuel at S-27 Marine Loading Terminal as approved under NSR Application 29926.
- Part 27 of Permit Condition 6185 was revised to allow the facility to postpone an annual source test at S-27 until the next marine vessel loading event at S-27 if no marine vessels are loaded at S-27 during a given calendar year.
- Permit Condition 27277 was added for S-1, S-2, S-3, S-5, S-6, S-12, S-15, S-24, S-25, S-30, S-32 through S-44 Storage Tanks; S-22 Truck Loading Rack; and S-27 Marine Loading.
- The POC/NPOC hourly and annual emissions limits in Permit Condition #6185 Part 4a were added to Table VII-E for S-27, Marine Vessel Loading/Unloading Terminal.
- Table VII-F description was revised to remove S-38, S-40, S-42, S-43, and S-44
- The POC/NPOC daily emissions limit in Permit Condition #6185 Part 2a and annual emissions limit in Permit Condition #6185 Part 3a were added to Table VII-F for tanks S-32, S-33, S-34, S-35, S-36, S-37, S-39, and S-41.
- Table VII-G was added for S-38, S-40, S-42, S-43, and S-44, which are being converted from fixed roof tanks into internal floating roof tanks

XI. GLOSSARY

ACT
Federal Clean Air Act

APCO
Air Pollution Control Officer

API
American Petroleum Institute

ARB
Air Resources Board

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

BARCT
Best Available Retrofit Control Technology

Basis
The underlying authority that allows the District to impose requirements.

C_5
An Organic chemical compound with five carbon atoms

C_6
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

XI. Glossary

CEM
Continuous Emission Monitor: a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

CFP
Clean Fuels Project

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

CO
Carbon Monoxide

CO_2
Carbon Dioxide

Cumulative Increase
The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 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

XI. Glossary

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) x (10^6) = (4.53) x (10 x 10 x 10 x 10 x 10 x 10) = 4,530,000. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT
An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

EPA
The federal Environmental Protection Agency.

ETP
Effluent Treatment Plant

Excluded
Not subject to any District Regulations.

FCC
Fluid Catalytic Cracker

Federally Enforceable, FE
All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), 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

XI. Glossary

Ground Level Monitor

grain
1/7000 of a pound

Graphitic
Made of graphite.

HAP
Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

H_2S
Hydrogen Sulfide

H_2SO_4
Sulfuric Acid

Hg
Mercury

HHV
Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

IFRT
An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

ISOM
Isomerization plant

LHV
Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

Lighter
"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

Long ton
2200 pounds

XI. Glossary

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

MDEA
Methyl Diethanolamine

MFR
Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

Mo Gas
Motor gasoline

MOP
The District's Manual of Procedures.

MOSC
Mobil Oil Sludge Conversion (licensed technology)

MSDS
Material Safety Data Sheet

MTBE
methyl tertiary-butyl ether

NA
Not Applicable

NAAQS
National Ambient Air Quality Standards

NESHAPs
National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 63.

NMHC
Non-methane Hydrocarbons

NMOC
Non-methane Organic Compounds (Same as NMHC)

NO2
Nitrogen Dioxide.

XI. Glossary

NOx
Oxides of nitrogen.

NSPS
Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR
New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O2
The chemical name for naturally-occurring oxygen gas.

Offset Requirement
A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility
A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to 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 40 CFR Part 52 and District Regulation 2, Rule 2.

Regulated Organic Liquid
"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery

XI. Glossary

marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RFG
Refinery Fuel Gas

RMG
Refinery Make Gas

SCR
A "selective catalytic reduction" unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

SIP
State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2
Sulfur dioxide

SO_2 Bubble
An SO2 bubble is an overall cap on the SO2 emissions from a defined group of sources, or from an entire facility. SO2 bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO2 emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H2S and other sulfur compounds in the RFG.

SO_3
Sulfur trioxide

THC
Total Hydrocarbons (NMHC + Methane)

therm
100,000 British Thermal Units

XI. Glossary

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

TOC
Total Organic Compounds (NMOC + Methane, Same as THC)

TPH
Total Petroleum Hydrocarbons

TRMP
Toxic Risk Management Plan

TRS
"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO2 that will be present in the combusted fuel gas, since sulfur compounds are converted to SO2 by the combustion process.

TSP
Total Suspended Particulate

TVP
True Vapor Pressure

VESSEL CALLING
Communication between vessel to vessel, or vessel to harbor authority for notification of distance or position of the vessel.

VOC
Volatile Organic Compounds

XI. Glossary

Units of Measure:

bbl	=	barrel of liquid (42 gallons)
bhp	=	brake-horsepower
btu	=	British Thermal Unit
C	=	degrees Celcius
F	=	degrees Fahrenheit
f^3	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grain
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
M	=	thousand
mm	=	million
Mg	=	mega-gram, one thousand grams
µg	=	micro-gram, one millionth of a gram
MM	=	million
mm	=	millimeter
MMbtu	=	million btu
mm Hg	=	millimeters of Mercury (pressure)
MW	=	megawatts
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to