Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:
Shore Terminals
Facility #A0581

Facility Address:
90 Highway 40
Crockett, CA 94553

Mailing Address:
2801 Waterfront Road
Martinez, CA 94553

Responsible Official	**Facility Contact**
Michael J. Burgett	Robert Bladen
Vice President, Operations	Terminal Manager
(925) 228-3227	(510) 787-1076

Type of Facility:	Marine Terminal	BAAQMD Permit Division Contact:
Primary SIC:	4226	Thu H. Bui
Product:	Receiving, Storing and Shipping of Petroleum products	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Peter Hess for Ellen Garvey_____ March 12, 2001____
Ellen Garvey, 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 11/15/00);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 9/29/98);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 11/15/00);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 10/7/98);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 10/7/98); and
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99).

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

1. This Major Facility Review Permit was issued on March 12, 2001 and expires on February 28, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than August 31, 2005, and no earlier than February 28, 2005. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** February 28, 2006**.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

I. Standard Conditions

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, nor 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 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)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

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)

I. Standard Conditions

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be March 12, 2001 to August 31, 2001. The report shall be submitted by September 30, 2001. Subsequent reports shall be for the following periods: September 1st through February 28th or 29th and March 1st through August 31st and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

(Regulation 2-6-502, 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 February 28th or 29th 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 permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

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

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

I. Standard Conditions

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 caused by conditions beyond the permit holder's reasonable control 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. Any variance granted by the Hearing Board from any term or condition of this permit which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
3. Notwithstanding the foregoing, 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)

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.

S-#	Description	Make or Type	Model	Capacity
1	Gasoline Receiving Tank T-801	External Floating Roof (welded)		3,360,000 gallons
2	Gasoline Receiving Tank T-802	External Floating Roof (welded)		3,360,000 gallons
3	Gasoline Receiving Tank T-803	External Floating Roof (welded)		3,360,000 gallons
5	Gasoline Storage Tank T-501	External Floating Roof (welded)		2,100,000 gallons
6	Gasoline Storage Tank T-502	External Floating Roof (welded)		2,100,000 gallons
11	Slops Tank T-101	Internal Floating Roof (welded)		420,000 gallons
12	Storage tank T-1501	External Floating Roof (welded)		6,300,000 gallons
15	Tank T-672; 67 MBBL Gasoline Storage Tank	External Floating Roof (welded)		2,814,000 gallons
22	Gasoline Loading Rack (two Islands)			18 Fillers
23	Oil/Water Separator		API	7,000 gallons
24	Selby Terminal Gasoline Shipping Tank T241	External Floating Roof Tank (welded)		1,008,000 gallons
25	Selby Terminal Shipping tank Gasoline T-141	External Floating Roof Tank (welded)		588,000 gallons
26	Water Storage Pond			105,699 gallons
27	Marine Vessel Loading			3 fillers
30	Tank T-671; 67 MBBL Gasoline Storage Tank	External Floating Roof Tank (welded)		2,814,000 gallons
32	T-1502, MTBE/Gasoline Storage Tank	Fixed Roof Tank		6,300,000 gallons
33	T-2001, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
34	T-2002, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
35	T-2003, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
36	T-2004, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons

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.

S-#	Description	Make or Type	Model	Capacity
37	T-2005, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
38	T-2006, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
39	T-2007,MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
40	T-2008, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
41	T-2009, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
42	T-2010, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
43	T-2011, MTBE/gasoline storage tank	Fixed Roof Tank		8,022,000 gallons
44	T-301, MTBE/gasoline storage tank	Fixed Roof Tank		1,260,000 gallons
45	T-51, Storage Tank	Fixed Roof Tank		210,000 gallons

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	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-45	BAAQMD Condition # 6185 Part 5, Part 15	Infrared combustible gas detector measures hydrocarbon concentration	1 lb POC/ 1000 barrel

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-422	Charcoal Adsorption Vapor Recovery unit	S-27, S-32 through S-45	BAAQMD Condition # 6185 Part 5, Part 15	Infrared combustible gas detector measures hydrocarbon concentration	1 lb POC/ 1000 barrel
A-423	Thermal Oxidizer Vapor Combustion Unit	Tank degassing	BAAQMD Condition # 6185 Part 17, part 20, part 22	1400^{o}F, residence time $\geq$ 0.5 sec, 1100 cfm, continuous hydrocarbon concentration monitor	1% vol. or POC $\leq$ 10,000 ppmv

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.

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

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
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 included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

NOTE:

There are differences between the current BAAQMD rule and the version of the rule in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved (or disapproved) 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 (11/15/00)	N
SIP Regulation 1	General Provisions and Definitions (9/29/98)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 18	Organic Compounds – Equipment Leaks (1/7/98)	N
SIP Regulation 8, Rule 18	Valves and Connectors at Petroleum Complexes, Chemical Plants, Bulk Plants and Bulk Terminals (3/4/92)	Y
SIP Regulation 8, Rule 25	Pump and Compressor Seals at Petroleum Refineries, Chemical Plants, Bulk Plants and Bulk Terminals (6/1/94)	Y
BAAQMD Regulation 8, Rule 33	Organic Compounds – Waste (Oil-Water) Separators (6/1/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
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 included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. 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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-General Provisions (12/15/99)**		
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	
8-5-304	Storage tanks larger than 75 cubic meter	Y	
8-5-311	Vapor loss control device requirements	Y	
8-5-311.1	Primary and secondary seals	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	Projection below liquid surface	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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.3	Pressure vacuum valves	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	N	
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	N	
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	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1	Liquid balancing, or	Y	
8-5-328.2	An approved Emission Control System	Y	
8-5-329	Ozone excess day prohibition	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-402	Secondary seal and fitting inspection	Y	
8-5-402.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-404	Certification	Y	
8-5-404.1	For primary seal	Y	
8-5-404.2	For secondary seal	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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-404.2.1	Annual basis for tanks subject to 8-5-311.1	Y	
8-5-404.3	For tank degassing equipment	Y	
8-5-405	Information required	Y	
8-5-405.1	Date of inspection	Y	
8-5-405.2	Actual gap measurements	Y	
8-5-405.3	Data, supported calculation	Y	
8-5-501	Records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
SIP Regulation 8, Rule 5	**Storage of Organic Liquids (1/20/93)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Floating Roofs in Operation	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	The opening	Y	
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.3	Pressure vacuum valves	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	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-321.3.1	Geometry of shoe	Y	
8-5-321.3.2	For welded tanks	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	General Provisions	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(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	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	
63.4	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	

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.12	State authority and delegations	Y	
63.15	Availability of information and confidentiality	Y	
NESHAPS 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 18	Minimum operating temperature of 1400^{o}F, minimum residence time of 0.5 seconds, and a maximum blower size of 1100 cfm [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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
Part 4	NOx (as NO2) emission limitation [Basis: Cumulative Increase]	Y	
Part 5	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM emission limitation [Basis: Cumulative Increase]	Y	
Part 7	True vapor pressure $\leq$ 8.3 psia [Basis: Cumulative Increase]	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 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 month [Basis: Cumulative Increase]	Y	

Table IV – B
Source-specific Applicable Requirements
S-11 - INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-General Provisions (12/1599)**		

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11 - INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-5-304	Storage tanks larger than 75 cubic meter	Y	
8-5-311	Vapor loss control device requirements	Y	
8-5-311.2	Internal floating roof tanks	Y	
8-5-311.2.1	A liquid mounted primary seal, mounted in full contact with the liquid in the annular space between the tanks shell and floating roof	Y	
8-5-311.2.2	Vapor mounted primary and a secondary seal	Y	
8-5-311.2.3	A liquid mounted primary and a secondary seal which satisfies the requirement of Section 8-5-321 and 322	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	Projection below liquid surface	Y	
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.2.3	Inaccessible openings	Y	
8-5-320.3	Pressure vacuum valves	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	N	
8-5-321.3.1	Geometry of shoe	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11 - INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1	Liquid balancing	Y	
8-5-328.2	An approved Emission Control System	Y	
8-5-329	Ozone excess day prohibition	Y	
8-5-330	Viewport Installation	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.2	Once every 10 years	Y	
8-5-402	Secondary seal and fitting inspection	Y	
8-5-402.2	Once every 10 years	Y	
8-5-403	Internal Floating Roof Tank Visual Inspection	Y	
8-5-404	Certification	Y	
8-5-404.1	For primary seal	Y	
8-5-404.2	For secondary seal	Y	
8-5-404.2.2	Once every 10 years	Y	
8-5-404.3	For tank degassing equipment	Y	
8-5-405	Information required	Y	
8-5-405.1	Date of inspection	Y	
8-5-405.2	Actual gap measurements	Y	
8-5-405.3	Data, supported calculation	Y	
8-5-501	Records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
SIP Regulation 8, Rule 5	**Storage of Organic Liquids (1/20/93)**		
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11 - INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.1	The opening	Y	
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.2.3	Inaccessible openings	Y	
8-5-320.3	Pressure vacuum valves	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	For welded tanks	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	General Provisions	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(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	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	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11 - INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
63.4	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	
NESHAPS 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)	Subject to applicable provisions of 40 CFR part 60, subpart Kb	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		
63.423(a)	Requirements in § 60.112b(a) (1) through (4)	Y	
63.423(c)	Comply by December 15, 1997	Y	
63.425	Test methods and procedures	Y	
63.425(d)	Vessel subject to the provisions of § 63.423 shall comply with § 60.113b of this chapter	Y	
63.417(c)	Monitoring as required in § 60.116b	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notifications	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11 - INTERNAL FLOATING ROOF TANK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.428(d) **BAAQMD Condition # 6185**	Keep records and furnish reports **Permit Conditions**	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 18	Minimum operating temperature of 1400^{o}F, minimum residence time of 0.5 seconds, and a maximum blower size of 1100 cfm [Basis: Cumulative Increase]	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: 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	PM emission limitation [Basis: Cumulative Increase]	Y	
Part 7	True vapor pressure $\leq$ 8.3 psia [Basis: Cumulative Increase]	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 18	Submit report demonstrating compliance with permit conditions annually [Basis: Cumulative Increase]	N	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar month [Basis: Cumulative Increase]	N	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-15, AND S-30 –
EXTERNAL 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-General Provisions (12/15/99)**		
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	
8-5-304	Storage tanks larger than 75 cubic meter	Y	
8-5-311	Vapor loss control device requirements	Y	
8-5-311.1	Primary and secondary seals	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	Projection below liquid surface	Y	
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.3	Pressure vacuum valves	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	N	
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	N	
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	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-15, AND S-30 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Gaps for welded tanks with seal installed after September 4, 1985	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1	Liquid balancing, or	Y	
8-5-328.2	An approved Emission Control System	Y	
8-5-329	Ozone excess day prohibition	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-402	Secondary seal and fitting inspection	Y	
8-5-402.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-404	Certification	Y	
8-5-404.1	For primary seal	Y	
8-5-404.2	For secondary seal	Y	
8-5-404.2.1	Annual basis for tanks subject to 8-5-311.1	Y	
8-5-404.3	For tank degassing equipment	Y	
8-5-405	Information required	Y	
8-5-405.1	Date of inspection	Y	
8-5-405.2	Actual gap measurements	Y	
8-5-405.3	Data, supported calculation	Y	
8-5-501	Records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
SIP Regulation 8, Rule 5	**Storage of Organic Liquids (1/20/93)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Floating Roofs in Operation	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	The opening	Y	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-15, AND S-30 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.3	Pressure vacuum valves	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	For welded tanks	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	General Provisions	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(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	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	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-15, AND S-30 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
63.4	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	
NESHAPS 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	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-15, AND S-30 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 18	Minimum operating temperature of 1400^{o}F, minimum residence time of 0.5 seconds, and a maximum blower size of 1100 cfm [Basis: Cumulative Increase]	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	
Part 4	NOx (as NO2) emission limitation [Basis: Cumulative Increase]	Y	
Part 5	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM emission limitation [Basis: Cumulative Increase]	Y	
Part 7	True vapor pressure $\leq$ 8.3 psia [Basis: Cumulative Increase]	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 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 month [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV - D
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 33	**Organic Compounds-Gasoline bulk terminals and gasoline delivery vehicles (6/1/94)**		
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		
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	
8-33-309	Vapor Recovery System Requirements – Loading Rack	Y	
8-33-401	Equipment installation and modification	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 **NESHAPS Part 63 Subpart R**	State authority and delegations **National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)**	Y Y	
63.420(g)	Most stringent control requirements	Y	

IV. Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.420(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	
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	

IV. Source-specific Applicable Requirements

Table IV - D
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)(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	
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	

IV. Source-specific Applicable Requirements

Table IV - D
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(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	
NESHAPS Part 63 Subpart XX	**National Emission Standards for Bulk Gasoline Terminals**	**Y**	
63.500(a)	Loading racks at a bulk gasoline terminal applicability	Y	
63.500(b)	December 17, 1980	Y	
63.502	Standard for VOC emissions from bulk gasoline terminals	Y	
63.502(a)	Vapor collection system requirement	Y	
63.502(b)	The atmospheric emission limits	Y	
63.502(c)	The vapor collection emission limits	Y	
63.502(d)	Prevent any VOC vapors collected at one loading rack from passing to another loading rack	Y	
63.502(e)	Vapor-tight gasoline tank trucks	Y	
63.502(e)(1)	The owner or operator shall obtain the vapor tightness documentation	Y	
63.502(e)(2)	Tank identification number requirement	Y	
63.502(e)(3)	Cross-check each tank identification number with the file of tank vapor tightness documentation	Y	
63.502(e)(4)	Notification of each nonvapor-tight gasoline tank truck	Y	
63.502(e)(5)	Vapor tightness documentation	Y	
63.502(e)(6)	Alternate procedures	Y	
63.502(f)	Vapor collection equipment	Y	
63.502(g)	Training drivers in the hookup procedures and posting visible reminder signs	Y	
63.502(h)	The vapor collection and liquid loading equipment	Y	
63.502(i)	No pressure-vacuum at a system pressure less than 4,500 pascals	Y	
63.502(j)	Inspection for organic compounds liquid or vapor leaks	Y	
63.503	Test methods and procedures		
63.503(a)	Methods and procedures of test methods	Y	

IV. Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.503(b)	Method 21 to monitor for leakage of vapor	Y	
63.503(c)	Determine compliance with the standards	Y	
63.503(c)(1)	The performance test	Y	
63.503(c)(2)	Performance test for intermittent operation	Y	
63.503(c)(3)	The emission rate (E) of total organic compounds	Y	
63.503(c)(4)	The performance test	Y	
63.503(c)(5)	Methods used to determine the volume (Vesi) air vapor mixture exhausted	Y	
63.503(c)(5)(ii)	Method 2A shall be used for all other vapor processing system	Y	
63.503(c)(6)	Method 25A or 25B shall be used for determining the total organics	Y	
63.503(c)(7)	Determine the volume (L) of gasoline dispensed	Y	
63.503(d)	Determine compliance with the standard	Y	
63.503(d)(1)	A pressure measurement device	Y	
63.503(d)(2)	Highest instantaneous pressure	Y	
63.505	Reporting and recordkeeping	Y	
63.505(a)	The tank truck vapor tightness documentation	Y	
63.505(b)	The documentation file for each gasoline tank truck	Y	
63.505(b)(1)	Gasoline Delivery Tank Pressure Test—EPA Reference Method 27	Y	
63.505(b)(2)	Tank owner and address	Y	
63.505(b)(3)	Tank identification number	Y	
63.505(b)(4)	Testing location	Y	
63.505(b)(5)	Date of test	Y	
63.505(b)(6)	Tester name and signature	Y	
63.505(b)(7)	Witnessing inspector, if any: Name, signature, and affiliation	Y	
63.505(b)(8)	Test results: Actual pressure change in 5 minutes, mm of water	Y	
63.505(c)	Inspection records	Y	
63.505(c)(1)	Date of inspection	Y	
63.505(c)(2)	Findings	Y	
63.505(c)(3)	Leak determination method	Y	
63.505(c)(4)	Corrective action	Y	
63.505(c)(5)	Inspector name and signature	Y	
63.505(d)	Documentation of all notifications	Y	

IV. Source-specific Applicable Requirements

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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.505(f)	Records of all replacements or additions of components	Y	
63.506	Reconstruction	Y	
63.506(a)	Cost calculations	Y	
63.506(b)	Fixed capital cost	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	PM 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 0.08 lb/Mgal of gasoline loaded [Basis: Reg. 8-33]	Y	
Part 8 (B)	Install a combustible gas detector/recorder [Basis: Reg. 2-1-403]	Y	
Part 8 (C)	Fail-safe instrumentation if the hydrocarbon content in excess of 4% (as butane) [Basis: Reg. 2-1-403]	Y	
Part 8 (D)	Test the overall hydrocarbon emission once every six month [Basis: Reg. 2-1-403]	Y	
Part 8 (F)	Operating time between carbon bed switching shall be no more than 30 minutes [Basis: Reg. 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: Reg. 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 month [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

IV. Source-specific Applicable Requirements

Table IV - E
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 (6/15/94)**		
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	
8-8-603	Inspection procedures	Y	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM emission limitation [Basis: Cumulative Increase]	Y	
Part 9	Pumps and compressors subject to Regulation 8-18. Valves subject to Regulation 8-18. [Basis: Reg. 8-18]	Y	
Part 18 (A)	List of all sources in operation at the terminal throughput the year [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-24, AND S-25 –
EXTERNAL 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-General Provisions (12/15/99)**		
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	
8-5-304	Storage tanks larger than 75 cubic meter	Y	
8-5-311	Vapor loss control device requirements	Y	
8-5-311.1	Primary and secondary seals	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	Projection below liquid surface	Y	
8-5-320.2.2	Viewports and other openings	Y	
8-5-320.3	Pressure vacuum valves	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	N	
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	N	
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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-24, AND S-25 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-5-328	Tank cleaning requirements	Y	
8-5-328.1	Liquid balancing, or	Y	
8-5-328.2	An approved Emission Control System	Y	
8-5-329	Ozone excess day prohibition	Y	
8-5-401	Primary seal inspection	Y	
8-5-401.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-402	Secondary seal and fitting inspection	Y	
8-5-402.1	Once every 10 years for tanks subject to 8-5-322.5	Y	
8-5-404	Certification	Y	
8-5-404.1	For primary seal	Y	
8-5-404.2	For secondary seal	Y	
8-5-404.2.1	Annual basis for tanks subject to 8-5-311.1	Y	
8-5-404.3	For tank degassing equipment	Y	
8-5-405	Information required	Y	
8-5-405.1	Date of inspection	Y	
8-5-405.2	Actual gap measurements	Y	
8-5-405.3	Data, supported calculation	Y	
8-5-501	Records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
SIP Regulation 8, Rule 5	**Storage of Organic Liquids (1/20/93)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Floating Roofs in Operation	Y	
8-5-320	Tank fitting requirements	Y	
8-5-320.1	Secondary seal	Y	
8-5-320.2	Openings in the roof	Y	
8-5-320.2.1	The opening	Y	
8-5-320.2.2	Viewports and other openings	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-24, AND S-25 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-320.3	Pressure vacuum valves	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	For welded tanks	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	General Provisions	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(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-24, AND S-25 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
63.4	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	
NESHAPS 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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-24, AND S-25 –
EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 18	Minimum operating temperature of 1400^{o}F, minimum residence time of 0.5 seconds, and a maximum blower size of 1100 cfm [Basis: Cumulative Increase]	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	
Part 4	NOx (as NO2) emission limitation [Basis: Cumulative Increase]	Y	
Part 5	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM emission limitation [Basis: Cumulative Increase]	Y	
Part 7	True vapor pressure $\leq$ 8.3 psia [Basis: Cumulative Increase]	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 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 month [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – G
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 (6/15/94)**		
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	
BAAQMD Condition # 12677	**Permit Conditions**		
Part 1	POC emission limitation [Basis: Cumulative Increase]	Y	
Part 6	PM emission limitation [Basis: Cumulative Increase]	Y	
Part 9	Pumps and compressors subject to Regulation 8-18. Valves subject to Regulation 8-18. [Basis: Reg. 8-18]]	Y	
Part 18 (A)	List of all sources in operation at the terminal throughput the year [Basis: Cumulative Increase]	Y	

Table IV – H
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 (1/4/89)**		

IV. Source-specific Applicable Requirements

Table IV – H
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
8-44-110	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	
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	
63.4	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	

IV. Source-specific Applicable Requirements

Table IV – H
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
NESHAPS Part 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	
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	

IV. Source-specific Applicable Requirements

Table IV – H
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
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	
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	

IV. Source-specific Applicable Requirements

Table IV – H
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
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	
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	

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

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

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

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

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 5	A-421 and A-222 shall not exceed 1 pound of POCs per 1000 barrels [Basis: Cumulative Increase]	Y	
Part 9	Emissions from A-421 and A-422 regenerative carbon unit shall not exceed 1 pound of POC per 1000 barrels. Cumulative increase shall not exceed 40 ton/yr. [Basis: Cumulative Increase]	Y	
Part 12	Minimize fugitive leaks during connection and disconnection [Basis: Reg. 8-18]	Y	
Part 14	Regenerative carbon system shall install an infrared combustible gas detector or District approved equivalent at the outlet of each 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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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: Reg. 9-1-303]	Y	
Part 13	No marine vessel calling [Basis: Cumulative Increase]	Y	
Part 14	Event of spill [Basis: Reg. 8-5]	Y	
Part 15	Ballasting into cargo tanks will not be allowed when air pollution emergency level is reached for ozone [Basis: Reg. 8-44-305]	Y	
Part 16	Violation of regulation or other requirement of U.S. Coast Guard [Basis: Reg. 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 month [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-General Provisions (12/15/99)**		
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-304	Storage tanks larger than 75 cubic meter	Y	
8-5-311	Vapor loss control device requirements	Y	
8-5-311.3	Emission control system with an efficiency of at least 95% by weight	Y	
8-5-328	Tank cleaning requirements	Y	
8-5-328.2	An Emission Control System with an efficiency of at least 90% by weight	Y	
8-5-329	Ozone excess day prohibition	Y	
8-5-404	Certification	Y	
8-5-404.3	Tank degassing equipment	Y	
8-5-501	Keep records	Y	
8-5-502	Tank cleaning annual source test requirement	Y	
8-5-503	Portable hydrocarbon detector	Y	
SIP Regulation 8, Rule 5	**Storage of Organic Liquids (1/20/93)**		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
40 CFR 60	**Standards of Performance for New Stationary Sources (12/23/71)**	Y	
Subpart A	General Provisions	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(a)	Compliance with standards and maintenance requirements	Y	
60.11(d)	Minimizing emissions	Y	
60.12	Circumvention	Y	
60.13	Reconstruction	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	

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

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
63.4	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	
NESHAPS 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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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		
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		
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	
63.428(h)(4)(i)	The date on which the leak was detected	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 3	Hydrocarbon liquids loaded shall not exceed 145,000 million barrels in any day [Basis: Cumulative Increase]	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	
Part 9	POC emissions from S-27 and from S-32 through S-45 shall not exceed 150 pounds per day, nor shall the cumulative increase from this facility exceed 40 ton/yr [Basis: Cumulative Increase]	Y	
Part 12	Tanks shall be equipped with properly installed and operated pressure relief valves [Basis: Reg. 8-18]	N	
Part 14	Regenerative carbon system shall install an infrared combustible gas detector or District approved equivalent at the outlet of each 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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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: Reg. 8-5]	Y	
Part 18	Minimum operating temperature of 1400^{o}F, minimum residence time of 0.5 seconds, and a maximum blower size of 1100 cfm [Basis: Cumulative Increase]	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, A-422 and A-423 to reduce POC concentration in the vapor stream to less than 1% vol or 10,000 ppm [Basis: Cumulative Increase]	Y	
Part 21	A-423 thermal oxidizer shall be equipped with continuous hydrocarbon concentration monitor and recorder which measures both the inlet and the outlet concentration [Basis: Cumulative Increase]	Y	
Part 22	A-421, A-422 and A-423 shall be equipped with continuous hydrocarbon concentration monitor and recorder which measures both the inlet and 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]	N	
Part 19	Submit report demonstrating compliance with permit conditions annually within 30 days after the calendar month [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 18	**Organic Compounds-Equipment Leaks (1/7/98)**		
8-18-301	General	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and compressors	Y	
8-18-304	Connectors	Y	
8-18-305	Pressure relief devices	Y	
8-18-306	Non-repairable equipment	Y	
8-18-307	Liquid Leaks	Y	
8-18-308	Alternate compliance	Y	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual inspection schedule	Y	
8-18-404	Alternate inspection schedule	Y	
8-18-405	Alternate inspection reduction plan	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	
SIP BAAQMD Regulation 8, Rule 18	**Organic Compounds-Valves and Connectors at Petroleum Refinery Complexes, Chemical Plants, Bulk Plants and Bulk Terminals (3/4/92)**		
8-18-301	Valves and Flanges	Y	
8-18-302	Valves	Y	
8-18-303	Connectors	Y	
8-18-304	Non-repairable valves	Y	
8-18-305	New or Replaced Valves	Y	
8-18-306	Repeat Leakers	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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP BAAQMD Regulation 8, Rule 25	**Organic Compounds-Pump and Compressor Seals at Petroleum Refinery Complexes, Chemical Plants, Bulk Plants and Bulk Terminals (6/1/94)**		
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	
NESHAPS 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	
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	

IV. Source-specific Applicable Requirements

Table IV – J
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 sent to waste collection systems	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-45, STORAGE TANKS, S-27 MARINE LOADING:

1. Storage Tanks S-32 through S-45 and Marine Loading Berth S-27 shall be vented 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 17 minutes while the system is operating. This condition shall not apply to exempt materials. [Basis: Cumulative Increase]

2. The combined total of all hydrocarbon liquids loaded into Storage Tanks S-32 through S-45 shall not exceed 18.8 million barrels in any consecutive 12-month period. [Basis: Cumulative Increase]

3. The combined total of all hydrocarbon liquids loaded into Storage Tanks S-32 through S-45 shall not exceed 145,000 barrels in any calendar day. Daily records of the total liquid loaded into Storage Tanks S-32 through S-45 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]

4. The combined total of all hydrocarbon liquids loaded into marine vessels at the Marine Loading Terminal S-27 shall not exceed 47.6 million barrels in any consecutive 12-month period. Monthly records of the 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]

5. Emissions from the A-421 and A-422 Regenerative Carbon Units shall not exceed 1 pound of POC's per 1000 barrels of hydrocarbon liquid transferred at S-27 and S-32 through S-34. . [Basis: Cumulative Increase]

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

*7. The average benzene concentration in all hydrocarbon liquids stored in Storage Tanks S-32 through S-45 shall not exceed 2% by weight. The owner/operator of sources S-32 through S-45 shall analyze all materials stored in each of these tanks for 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 hydrocarbon 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. The District shall adjust the throughput limits established in permit conditions 2, 3, and 4, and the emission rate limitation in permit condition 5, if the owner/operator of this facility is able to demonstrate, to the satisfaction of the APCO, that an emission rate less than 1 lb POC/1000 bbl is achievable on a consistent basis. The District would then change the above referenced permit conditions before the issuance of the Permit to Operate for this project. Under no circumstances shall the increase in POC emissions from S-27 as a result of this project plus the new emissions from S-32 through S-45 exceed 150 lb/day, nor shall the Cumulative Increase from this facility exceed 40 TPY. [Basis: Cumulative Increase]

10. All new hydrocarbon liquid product pumps associated with this project shall be equipped with either double mechanical shaft seals or shall utilize sealless 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: Reg. 8-18]

11. All new valves and flanges associated with this project shall be subject to the inspection and maintenance criteria of District Regulation 8-18 and any future revisions to this rule. [Basis: Reg. 8-18]

12. Storage Tanks S-32 through S-45 shall be equipped 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 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: Reg. 8-18]

13. The owner/operator of this facility shall submit an accounting of all new pumps, valves, and flanges associated with this project, and shall also identify the numbers of existing pumps, valves, and flanges, within 60 days of project completion. This accounting shall recalculate fugitive emissions from both these new sources and from existing fugitive sources. The calculations shall also compare the actual new fugitive emissions versus the projected fugitive emissions calculated in the

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permit application. The District may adjust the plant Cumulative Increase based on the recalculated actual emission rate. [Basis: Cumulative Increase]

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 each of these carbon units. This detector shall continuously measure and record hydrocarbon concentration in PPM as butane. 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 total number of tank degassing operations at this facility shall not exceed 6 in any consecutive 12-month period. [Basis: Cumulative Increase]

17. The tank degassing operations shall be vented at all times to either the properly maintained and properly operated Carbon Adsorption/Desorption System (A-421 & A-422) or Thermal Oxidizer (A-423). [Basis: Reg. 8-5]

18. The Thermal Oxidizer (A-423) shall maintain a minimum operating temperature of 1400^{o}F, a minimum residence time of 0.5 seconds, and a maximum blower size of 1100 cfm. [Basis: Cumulative Increase]

19. The control equipment (A-421, A-422, & A-423) shall cause the tank to operate at negative pressure during tank cleaning operations. Fugitive emissions during tank cleaning operations shall be minimized. This control equipment shall begin operating prior to flushing the tank with water. [Basis: Cumulative Increase]

20. The storage tank vapors shall be vented to the A-421, A-422, & A-423 control equipment 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. A-423 Thermal Oxidizer shall be equipped with a continuous temperature controller set to maintain the operating temperature above 1400^{o}F as required in condition #18. [Basis: Cumulative Increase]

22. A-421, A-422, & A-423 shall be equipped with a continuous hydrocarbon concentration monitor and recorder that measures both the inlet and 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 of A-421, A-422, & A-423 shall maintain the following records:
    a) Number of tank degassing operations,

VI. Permit Conditions

b) Abatement device used for each degassing operation
c) The operating temperature of the Thermal Oxidizer (A-423), and
d) The hydrocarbon concentration at the inlet and 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 ~~two~~ 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 combined total pumping rate through the three loading arms associated with S-27 shall not exceed 10,000 barrels per hour. [Basis: Cumulative Increase]

26. Only the following materials shall be transferred at Marine Loading Terminal S-27:

1) Crude Oil
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). [Basis: Cumulative Increase, Toxics]

COND# 12677

For S-1 THROUGH S-26, S-30, S-32 THROUGH S-45 - STORAGE TANKS, S-27 - MARINE LOADING RACKS:

1. POC emissions from Sources S-1 through S-26 and S-32 through S-45 plus tanker transit combustion emissions calculated in accordance with the equation below, shall not exceed 69 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
Unsegregated Ballast Emissions
Tug Combustion Emissions
Fugitive Emissions
Low Vapor Pressure Product Tank Breathing Losses
Gasoline Tank Standing Losses
Low Vapor Pressure Product Tank Working Losses

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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. POC emissions from Source S-27 Marine Loading operations shall 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. Carbon monoxide emissions from Sources S-1 through S-26 plus tanker combustion emissions shall 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. Oxides of nitrogen emissions (as NO2) from Sources S-1 through S-26 plus tanker transit emissions shall 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: Cumulative Increase]

5. Sulfur dioxide emissions from Sources S-1 through S-26 plus tanker transit combustion emissions shall 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

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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. Particulate matter emissions from Sources S-1 through S-26 plus tanker transit combustion emissions shall 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. Products stored in Tanks S-1, S-2, S- 3, S-5, S-6, S-11, S-12, S-15, S-24, S-25, and S-30 shall have true vapor pressure not greater than 8.3 psia. [Basis: Cumulative Increase]

8. All emissions from the S-22 Shore Terminals-Selby Truck Loading Rack shall be vented to the A-1 Vapor Recovery System, which shall meet the following requirements:
    A. POC emissions from A-1 shall not exceed 0.08 lb/Mgal of gasoline loaded, or the current District Regulation limit, whichever is more stringent. [Basis: Reg. 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 butane). 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: Reg. 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: Reg. 2-1-403]
    D. Shore Terminals-Selby shall test the overall hydrocarbon emissions once every six months. The testing shall be performed in accordance with District Manual of Procedures. [Basis: Reg. 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: Reg. 2-1-403]
    F. Operating time between carbon bed switching shall be no more than 30 minutes while the

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system is operating. [Basis: Reg. 8-5, NSPS]

9. All Shore Terminals-Selby pumps and compressors shall be subject to the inspection and maintenance requirements of District Reg. 8 18. All valves and flanges shall be subject to the inspection and maintenance requirements of Reg. 8-18. [Basis: Reg. 8-18]

10. Shore Terminals-Selby shall clean all storage tanks only after first displacing the organic liquid with water prior to draining the tank contents and prior to creating a vapor space under the floating roof (if applicable). An organic/water mixture drained from storage tanks shall be treated in Shore Terminals-Selby 's oil/water separator. [Basis: Reg. 8-5]

11. Shore Terminals-Selby 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. No marine vessel calling at the Terminal shall allow emissions of a gas, which contains in excess of 2000 ppm (vol.) of sulfur dioxide. [Basis: Reg. 9-1-303]

13. No 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. In the event of a spill of petroleum products to the Bay by a marine vessel while at Shore Terminals-Selby 's dock, all pumping of products and all ballasting will be stopped. These operations will not be resumed until the situation has been rectified. [Basis: Reg. 8-5]

15. In the event that the Air Pollution Emergency level is reached for ozone in the District, ballasting into cargo tanks which contain gasoline or loading of cargo will not be allowed. Ballasting or loading can be resumed when the Emergency has been called off by the District. [Basis: Reg. 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: Reg. 8-44-402]

17. Deleted

18. No later than 60 days after the end of each calendar year, Shore Terminals-Selby 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:

    A. A list of all sources in operation at the Terminal throughout the year.

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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 total volume of unsegregated ballast taken on by vessels which called at the Terminal during the year.
I. 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 month, Shore Terminals-Selby shall submit to the District's Permit Services Division a report containing the information required by condition 18 E applicable to that month. [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 + UNSEGREGATED BALLAST 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

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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 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

VI. Permit Conditions

(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

BALLAST
67.2 LB. VOC/1000 BBLS OF UNSEGREGATED BALLAST

FLOATING ROOF TANKS
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 EMISSION FACTOR (LBS VOC/1000 BBL LOADED)			DIESEL
TYPE OF VESSEL	PRIOR CARGO	CONDITION OF COMPARTMENT	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

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	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
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 WICKLAND)

	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)

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	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 WICKLAND)

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

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either 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.

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 8-5-320.2.2	Y		Viewports and other openings with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.3	Y		PSV set within 10% of max pressure or 25.8 mmHg (0.5 psia)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.2	Y		Gap of seal or lid less than 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.3	Y		Gap between well and roof less than 1.3 cm (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.2	Y	6/1/00	Internal float and wiper with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.3	Y		Well and roof with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.6	Y		Slotted membrane or equivalent covers at least 90% area of opening	BAAQMD 8-5-405	P/10 yr	Inspection

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	BAAQMD 8-5-321.3	Y		Primary seal metallic shoe extends a minimum 61 cm (24 in) above liquid surface	BAAQMD 8-5-401, 8-5-404	P/10 yr P/10 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, 8-5-404	P/10 yr P/10 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) < 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, 8-5-404	P/10 yr P/10 yr	Inspection Certification
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion up to 3.8 cm (1 ½in) in width	BAAQMD 8-5-402, 8-5-404	P/10 yr P/A	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 8-5-402, 8-5-404	P/10 yr P/A	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
POC	BAAQMD 8-5-328.2	Y		Tank cleaning $\geq$ 90% control, POC concentration < 10,000 ppm	BAAQMD 8-5-404.3, 8-5-502	P/A	Source Test
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 18	Y		Temperature $\geq$ 1400^oF, residence time = 0.5 sec, blower size = 1100 cfm	BAAQMD Condition # 6185, part 21	C	Temperature monitor
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

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	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 ≤ 8.3 psia	BAAQMD Condition # 12677, part 18	P/A	Records
POC	BAAQMD Condition # 12677, part 11	Y		Maximum register deadweight ≤ 139,000 ton	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
NO2	BAAQMD Condition # 12677, part 4	Y		NO2 ≤ 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
PM	BAAQMD Condition # 12677, part 6	Y		PM ≤ 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-11 - INTERNAL FLOATING ROOF TANK

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 8-5-320.2.2	Y		Viewports and other openings with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.3	Y		PSV set within 10% of max pressure or 25.8 mmHg (0.5 psia)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.2	Y		Gap of seal or lid less than 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.3	Y		Gap between well and roof less than 1.3 cm (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.3	Y		Well and roof with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.6	Y		Slotted membrane or equivalent covers at least 90% area of opening	BAAQMD 8-5-405	P/10 yr	Inspection
POC	BAAQMD 8-5-321.1	Y		No holes, tears or other openings in the primary seal fabric	BAAQMD 8-5-403	P/A	Inspection
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, 8-5-404	P/10 yr P/10 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, 8-5-404	P/10 yr P/10 yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-11 - INTERNAL FLOATING ROOF TANK

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 8-5-321.3.1	Y		For welded tanks, 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) < 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, 8-5- 404	P/10 yr P/10 yr	Inspection Certification
POC	BAAQMD 8-5-322.1	Y		No holes, tears, or other openings	BAAQMD 8-5-403	P/A	Inspection
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion up to 3.8 cm (1 ½in) in width	BAAQMD 8-5-402, 8-5-404	P/10 yr P/10 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 8-5-402, 8-5-404	P/10 yr P/10 yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-11 - INTERNAL FLOATING ROOF TANK

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 8-5-322.5	Y		Gap between tank shell and the secondary seal < 1.5 mm (0.06 in). The cumulative length of all secondary seal gaps exceeding 0.5 mm (0.02 in) < 5% of the circumference	BAAQMD 8-5-402, 8-5-404	P/10 yr P/10 yr	Inspection Certification
POC	BAAQMD 8-5-328.2	Y		Tank cleaning ≥ 90% control, POC concentration < 10,000 ppm	BAAQMD 8-5-404.3	P/A	Source Test
POC	Subpart Ka 40 CFR 60.112(a)(2)	Y		No gap	None	None	None
POC	BAAQMD Condition # 6185, part 18	Y		Temperature ≥ 1400°F, residence time = 0.5 sec, blower size = 1100 cfm	BAAQMD Condition # 6185, part 21	C	Temperature monitor
POC	BAAQMD Condition # 6185, part 20	Y		POC concentration < 1% or 10,000 ppm	BAAQMD Condition # 6185, part 21	C	Hydrocarbon concentration monitor
POC	BAAQMD Condition # 12677, part 1	Y		POC ≤ 71.7 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 - B
Applicable Limits and Compliance Monitoring Requirements
S-11 - INTERNAL FLOATING ROOF TANK

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 7	N		TVP $\leq$ 8.3 psia	BAAQMD Condition # 12677, part 18	P/A	Records
POC	BAAQMD Condition # 12677, part 11	Y		Maximum register deadweight $\leq$ 139,000 ton	BAAQMD Condition # 12677, part 18	P/A	Records
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
NO2	BAAQMD Condition # 12677, part 4	Y		NO2 $\leq$ 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
PM	BAAQMD Condition # 12677, part 6	Y		PM $\leq$ 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 - C
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, 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 8-5-320.2.2	Y		Viewports and other openings with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.3	Y		PSV set within 10% of max pressure or 25.8 mmHg (0.5 psia)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.2	Y		Gap of seal or lid less than 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.3	Y		Gap between well and roof less than 1.3 cm (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.2	Y	6/1/00	Internal float and wiper with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.3	Y		Well and roof with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.6	Y		Slotted membrane or equivalent covers at least 90% area of opening	BAAQMD 8-5-405	P/10 yr	Inspection
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, 8-5-404	P/10 yr P/10 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, 8-5-404	P/10 yr P/10 yr	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, 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) < 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, 8-5-404	P/10 yr P/10 yr	Inspection Certification
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion up to 3.8 cm (1 ½in) in width	BAAQMD 8-5-402, 8-5-404	P/10 yr P/A	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 8-5-402, 8-5-404	P/10 yr P/A	Inspection Certification
POC	BAAQMD 8-5-322.5	Y		Gap between tank shell and the secondary seal < 1.5 mm (0.06 in). The cumulative length of all secondary seal gaps exceeding 0.5 mm (0.02 in) < 5% of the circumference	BAAQMD 8-5-402, 8-5-404	P/10 yr P/A	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, 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 8-5-328.2	Y		Tank cleaning $\geq$ 90% control, POC concentration < 10,000 ppm	BAAQMD 8-5-404.3, 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
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 18	Y		Temperature $\geq$ 1400^{o}F, residence time = 0.5 sec, blower size = 1100 cfm	BAAQMD Condition # 6185, part 21	C	Temperature monitor
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-12, S-15, 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 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 ≤ 8.3 psia	BAAQMD Condition # 12677, part 18	P/A	Records
POC	BAAQMD Condition # 12677, part 11	Y		Maximum register deadweight ≤ 139,000 ton	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
NO2	BAAQMD Condition # 12677, part 4	Y		NO2 ≤ 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
PM	BAAQMD Condition # 12677, part 6	Y		PM ≤ 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 - D
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 8-33-301	Y		POC Emission ≤ 9.6 grams per cubic meter (0.08 lb/1000gal) 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
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 ≤ 0.08 lb/1000 gallon loaded	BAAQMD Condition # 12677, part 8D	P/bi-annual	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
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, 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
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
NO2	BAAQMD Condition # 12677, part 4	Y		NO2 ≤ 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
PM	BAAQMD Condition # 12677, part 6	Y		PM ≤ 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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
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

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-24, AND S-25
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 8-5-320.2.2	Y		Viewports and other openings with gap ≤ 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.3	Y		PSV set within 10% of max pressure or 25.8 mmHg (0.5 psia)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.2	Y		Gap of seal or lid less than 0.32 cm (1/8 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.4.3	Y		Gap between well and roof less than 1.3 cm (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.2	Y	6/1/00	Internal float and wiper with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection
POC	BAAQMD 8-5-320.5.3	Y		Well and roof with gap ≤ (1/2 in)	BAAQMD 8-5-402	P/10 yr	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-24, AND S-25
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 8-5-320.6	Y		Slotted membrane or equivalent covers at least 90% area of opening	BAAQMD 8-5-405	P/10 yr	Inspection
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, 8-5-404	P/10 yr P/10 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, 8-5-404	P/10 yr P/10 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) < 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, 8-5-404	P/10 yr P/10 yr	Inspection Certification
POC	BAAQMD 8-5-322.2	Y		Secondary seal shall allow insertion up to 3.8 cm (1 ½in) in width	BAAQMD 8-5-402, 8-5-404	P/10 yr P/A	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 8-5-402, 8-5-404	P/10 yr P/A	Inspection Certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-24, AND S-25
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 8-5-328.2	Y		Tank cleaning $\geq$ 90% control, POC concentration < 10,000 ppm	BAAQMD 8-5-404.3, 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
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 18	Y		Temperature $\geq$ 1400^{o}F, residence time = 0.5 sec, blower size = 1100 cfm	BAAQMD Condition # 6185, part 21	C	Temperature monitor
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-24, AND S-25
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 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 ≤ 8.3 psia	BAAQMD Condition # 12677, part 18	P/A	Records
POC	BAAQMD Condition # 12677, part 11	Y		Maximum register deadweight ≤ 139,000 ton	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
NO2	BAAQMD Condition # 12677, part 4	Y		NO2 ≤ 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
PM	BAAQMD Condition # 12677, part 6	Y		PM ≤ 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 – G
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 8-44-301.1	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	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(c)(3)	Y		RACT combustion controlled ≥ 98%, or recovery controlled ≥ 95% weight, or	40 CFR 63.563(b)(6)(i)(A), 63.564(a)(3)	C	Hydrocarbon Concentration monitor
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 ≤17 mins	BAAQMD Condition # 6185, part 24	P/each switch	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
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 # 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	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 9	Y		POC Emissions ≤ 150 pound per day, or ≤ 40 ton per year	BAAQMD Condition # 6185, part 22	P/D, P/A	Hydrocarbon Concentration monitor
POC	BAAQMD Condition # 6185, part 25	Y		Pumping rate ≤ 10,000 barrels per hour	BAAQMD Condition # 6185 part 26	P/H	Records
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
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 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 Reg. 9-1-303	P/A	Records
PM	BAAQMD Condition # 12677, part 6	Y		PM ≤ 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 - H
Applicable Limits and Compliance Monitoring Requirements
S-32 TO S-45 - 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 8-5-311.3	Y		Controlled ≥ 95% weight	BAAQMD Condition # 6158, part 22	C	Hydrocarbon concentration monitor
POC	BAAQMD 8-5-328.2	Y		Tank cleaning ≥ 90% control, POC concentration < 10,000 ppm	BAAQMD Condition # 6158, part 22	C	Hydrocarbon concentration monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-32 TO S-45 - 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	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 ≤17 mins	BAAQMD Condition # 6185, part 24	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
POC	BAAQMD Condition # 6185, part 3	Y		Hydrocarbon liquid loaded ≤ 145,000 barrels per day	BAAQMD Condition # 6185, part 3	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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-32 TO S-45 - 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 6	N		Benzene emissions ≤ 0.15 pound per day	BAAQMD Condition # 6185, part 7	C	Hydrocarbon Concentration monitor
POC	BAAQMD Condition # 6185, part 7	N		Benzene concentration ≤ 2 % weight	BAAQMD Condition # 6185, part 7	Semi-annual	Analysis
POC	BAAQMD Condition # 6185, part 9	Y		POC Emissions ≤ 150 pound per day, or ≤ 40 ton per year for S-27, S-32 through S-45	BAAQMD Condition # 6158, part 22	P/D and A	Records
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
POC	BAAQMD Condition # 6185, part 18	Y		Temperature ≥ 1400°F, residence time = 0.5 sec, blower size = 1100 cfm	BAAQMD Condition # 6185, part 21	C	Hydrocarbon Concentration monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-32 TO S-45 - 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
POC	BAAQMD Condition # 12677, part 11	Y		Maximum register deadweight ≤ 139,000 ton	BAAQMD Condition # 12677, part 18	P/A	Records

Table VII – I
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 Reg. 8-18-301	Y		General equipment leak ≤ 100 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
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 Reg. 8-18-302	Y		Valve leak ≤ 100 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-303	Y		Pump and compressor leak ≤ 500 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-304	Y		Connection leak ≤ 100 ppm	BAAQMD Reg. 8-18-401.2e	P/Q	Inspection
POC	BAAQMD Reg. 8-18-305	Y		Pressure relief valve leak ≤ 500 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	None	N	
POC	BAAQMD Reg. 8-18-306.2	Y		Awaiting repair Valves ≤ 0.5% Pressure Relief ≤ 1% Pump and Connector ≤ 1%	BAAQMD Reg. 8-18-401.5	P/24 hours	Inspection
POC	BAAQMD Reg. 8-18-306.3.2	Y		Mass emissions & non-repairable equipment allowed Valve ≤ 0.1 lb/day & ≤1.0% Pressure Relief ≤ 0.2 lb/day & ≤ 5% Pump and Connector ≤ 0.2 lb/day & ≤ 5%	BAAQMD Reg. 8-18-401.3	P/D	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
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 Reg. 8-18-306.3.3	Y		Total valve, pressure relief, pump or compressor leaks ≥ 15 lb/day, they must be repaired within 7 days	None	N	
POC	SIP BAAQMD Reg. 8-18-302	Y		Valve leak ≤ 100 ppm	SIP BAAQMD Reg. 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Reg. 8-18-303	Y		Connector leak ≤ 100 ppm	SIP BAAQMD Reg. 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Reg. 8-18-304.1	Y		Valve prepared within 5 years or next scheduled turnaround	SIP BAAQMD Reg. 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Reg. 8-18-304.2	Y		Awaiting repaired valves < 0.5%	SIP BAAQMD Reg. 8-18-401.6	P/24 hours	Inspection
POC	SIP BAAQMD Reg. 8-18-305	Y		New or replaced valve leak ≤ 100 ppm for 4 consecutive quarters	SIP BAAQMD Reg. 8-18-401.3	P/Q	Inspection
POC	SIP BAAQMD Reg. 8-18-306	Y		Repeat valve , connector leak must meet SIP BAAQMD Reg. 8-18-304 & 8-18-305	SIP BAAQMD Reg. 8-18-401.3	P/Q	Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
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 Reg. 8-25-302	Y		Pump leak ≤ 500 ppm	SIP BAAQMD Reg. 8-25-401.2 & Reg. 8-25-403	P/Q P/D	Measure leaks Visual Inspection
POC	SIP BAAQMD Reg. 8-25-303	Y		Compressor leak ≤ 100 ppm	SIP BAAQMD Reg. 8-25-401.2 & Reg. 8-25-403	P/Q P/D	Measure leaks Visual Inspection
POC	SIP BAAQMD Reg. 8-25-304.1	Y		Pump or compressor prepared within 5 years or next scheduled turnaround	SIP BAAQMD Reg. 8-25-401.1 & Reg. 8-25-402	P/7 days	Measure leaks Inspection Plan
POC	SIP BAAQMD Reg. 8-25-304.2	Y		Awaiting repaired valves < 1.0%	SIP BAAQMD Reg. 8-25-401.1 & Reg. 8-25-402	P/7 days	Measure leaks Inspection Plan
POC	SIP BAAQMD Reg. 8-25-305	Y		New or replaced pump and compressor leak ≤ 500 ppm for 4 consecutive quarters	SIP BAAQMD Reg. 8-25-401.2 & Reg. 8-25-403	P/Q P/D	Measure leaks Visual Inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
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 Reg. 8-25-306	Y		Repeat pump , compressor leak must meet SIP BAAQMD Reg. 8-25-304 & 8-25-305	SIP BAAQMD Reg. 8-25-401.2 & Reg. 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	P/10 yr	Inspection
POC	BAAQMD Condition # 12677, part 9	Y		Pumps, Compressors, Valves and Flanges subject to Regulation 8-18	BAAQMD 8-18-401	P/Q	Inspection

VIII. TEST METHODS

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

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
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
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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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
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
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
BAAQMD Regulation 8-44-303	Leak test and gas tight determination	EPA reference method 21, Determination of Volatile Organic Compound Leaks
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
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

VIII. Test Methods

Table VIII
Test Methods

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

XI. PERMIT SHIELD

Not applicable.

XII. GLOSSARY

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CEQA
California Environmental Quality Act

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

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.

District
The Bay Area Air Quality Management District

EPA
The federal Environmental Protection Agency.

Excluded

XII. Glossary

Not subject to any District Regulations.

Federally Enforceable, FE
All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (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.

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.

Major Facility
A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

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.

MOP
The District's Manual of Procedures.

NAAQS
National Ambient Air Quality Standards

NESHAPs
National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

NMHC
Non-methane Hydrocarbons

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.

XII. Glossary

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.)

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.

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

XII. Glossary

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

TSP
Total Suspended Particulate

VOC
Volatile Organic Compounds

Units of Measure:

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

XIII. APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments