Bay Area Air Quality Management District

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

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

Shore Terminals
Facility #A7034

Facility Address:
2801 Waterfront Road
Martinez, CA 94553

Mailing Address:
2801 Waterfront Road
Martinez, CA 94553

Responsible Official	**Facility Contact**
Michael J. Burgett	Myles Butler
Vice President, Operations	Terminal Manager
(925) 228-3227	(510) 228-3227

Type of Facility: Marine Terminal
Primary SIC: 4226
Product: Receiving, Storing and Shipping of Petroleum products

BAAQMD Permit Division Contact:
Thu H. Bui

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

_____ _____

Ellen Garvey, Executive Officer/Air Pollution Control Officer Date

TABLE OF CONTENTS

I. STANDARD CONDITIONS 3

II. EQUIPMENT 7

III. GENERALLY APPLICABLE REQUIREMENTS 9

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS 11

V. SCHEDULE OF COMPLIANCE 48

VI. PERMIT CONDITIONS 49

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS 75

VIII. TEST METHODS 95

IX. GLOSSARY 99

X. APPLICABLE STATE IMPLEMENTATION PLAN 103

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 10/7/98);
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 10/7/98);
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).
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 10/20/99).

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

1. This Major Facility Review Permit was issued on [ ] and expires on [when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** [when issued, enter 5th anniversary of issue date]**.** (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

I. Standard Conditions

3, §4.11)

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, 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

I. Standard Conditions

entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [_____ 1st through _____ 30th or 31st] and [_____ 1st through _____ 30th or 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 _____ 1st to _____ 30th or 31st. The certification shall be submitted by _____ 30th or 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

I. Standard Conditions

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

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit 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	Tank T-1	Fixed Roof Tank		3,360,000 gallons
2	Tank T-2	Fixed Roof Tank		3,360,000 gallons
3	Tank T-3	Fixed Roof Tank		2,310,000 gallons
4	Tank T-4	Fixed Roof Tank		2,310,000 gallons
5	Tank T-5	Fixed Roof Tank		2,310,000 gallons
6	Tank T-6	Fixed Roof Tank		2,310,000 gallons
7	Tank T-7	Fixed Roof Tank		2,310,000 gallons
8	Tank T-8	Fixed Roof Tank		840,000 gallons
9	Tank T-9	Fixed Roof Tank		420,000 gallons
10	Tank T-10	Fixed Roof Tank		126,000 gallons
11	Tank T-11 (slop)	Fixed Roof Tank		7,000 gallons
12	Tank T-12	Fixed Roof Tank		25,000 gallons
13	Tank T-13	External Floating Roof Tank		21,000,000 gallons
14	Tank T-14	External Floating Roof Tank		21,000,000 gallons
15	Tank T-15	External Floating Roof Tank		21,000,000 gallons
16	Tank T-16	External Floating Roof Tank		21,000,000 gallons
18	Tank T-34	Fixed Roof Tank		12,000 gallons
19	Tank T-35	Fixed Roof Tank		12,000 gallons
20	Tank Truck Loading Rack	Truck/Rail		12 Gasoline Fillers
21	Marine Vessel Wharf	Marine		3 Gasoline Fillers
23	Oily Water Separator – Black System	Oil Water Separator	Custom	23 gal/hr
24	Oily Water Separator – Clean System		Custom	0.5 gal/hr
27	Storage Tank T-39	Fixed Roof Tank		7,350,000 gallons
28	Storage Tank T-40	Fixed Roof Tank		7,350,000 gallons
73	Direct Fired Heater (diesel, natural gas)			25 MMBtu/hr

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Thermal Oxidizer	S-1 through S-12, S-18, S-19, S-20, S-27, S-28	BAAQMD Condition # 1253 Part IIID, schedule D	Continuous hydrocarbon concentration monitor, continuous temperature monitor	POC = 1.44 lb/1000 barrel NOx = 9.68 lb/day plus 0.177 lb/1000 barrel; Temp. ≥ 1400°F
A-2	Vapor Recovery	S-1 through S-12, S-18, S-19, S-20, S-27, S-28	BAAQMD Condition # 1253 Part IIID, schedule	Continuous hydrocarbon concentration monitor, continuous temperature monitor	POC = 1.44 lb/1000 barrel NOx = 9.68 lb/day plus 0.177 lb/1000 barrel; Temp. ≥ 1400°F
A-41	Vapor Combustion Unit	S-1 through S-12, S-18, S-19, S-20, S-21, S-27, S-28	BAAQMD Condition # 1253 Part IV, section 3	Continuous hydrocarbon concentration monitor, continuous temperature monitor, static pressure instrument	POC = 1.44 lb/1000 barrel NOx = 9.68 lb/day plus 0.177 lb/1000 barrel; Temp. ≥ 1400°F

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 (10/7/98)	N
SIP Regulation 1	General Provisions and Definitions (9/29/98)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	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 THROUGH S-10 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-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	
8-5-311.3	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	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1 THROUGH S-10 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 K	**Standards of Performance for Volatile Organic Liquid Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978**	Y	
60.110(c)(2)	Affected tanks that are greater than or equal to 65,000 gallons	Y	
60.112(a)(1)	Vapor pressure is equal to or greater than 1.5 psia shall be equipped with a vapor recovery system, or their equivalent	Y	
60.112(a)(2)	Vapor pressure is equal to or greater than 11.1 psia shall be equipped with a vapor recovery system, or their equivalent	Y	
60.113	Monitor of operations	Y	
40 CFR 63	**National Emission Standards for Hazardous Air Pollutants for Source Categories**	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1 THROUGH S-10 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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)	Affected terminal	Y	
63.420(b)(1)	Affected pipeline breakout station	Y	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subject to the provisions of 40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.423	Standards: Storage vessels		
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)(3)	Continuous parameter monitoring system (CPMS), Temperature	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S-1 THROUGH S-10 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 yr recordkeeping	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(e)	Work practice program recordkeeping	Y	
63.428(h)	Submit an excess emissions report to the administrator	Y	
63.428(h)(1)	Each exceedance or failure reports	Y	
63.428(h)(4)	Equipment leak	Y	
63.428(h)(4)(i)	The date on which the leak was detected	Y	
63.428(h)(4)(ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4)(iii)	The reasons for the delay of repair; and	Y	
63.428(h)(4)(iv)	The date of successful repair	Y	
BAAQMD Condition # 1253	**Permit Conditions**		
Part IB	Total facility organic compound emissions shall not exceed 65.1 tpy [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	Organic emission shall not exceed 1.44 lb/1000 barrels for Vapor Control Equipment/Vapor Recovery System Emissions [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-11 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-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	
8-5-301	Storage tanks smaller than 150 cubic meter	Y	
8-5-302	Above Ground Gasoline Storage Tanks smaller than 75 cubic meter	Y	
8-5-328	Tank cleaning requirements	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	
BAAQMD Condition # 1253	**Permit Conditions**		
Part IB	Total facility organic compound emissions shall not exceed 65.1 tpy [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-18, AND S-19 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-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	
8-5-311.3	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 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	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-18, AND S-19 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
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)	Affected terminal	Y	
63.420(b)(1)	Affected pipeline breakout station	Y	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subject to the provisions of 40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.423	Standards: Storage vessels		
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)(3)	Continuous parameter monitoring system (CPMS), Temperature	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 yr recordkeeping	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	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-12, S-18, AND S-19 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.428(c)(2)(i)	Determining the operating parameter value	Y	
63.428(d)	Keep records and furnish reports	Y	
63.428(e)	Work practice program recordkeeping	Y	
63.428(h)	Submit an excess emissions report to the administrator	Y	
63.428(h)(1)	Each exceedance or failure reports	Y	
63.428(h)(4)	Equipment leak	Y	
63.428(h)(4)(i)	The date on which the leak was detected	Y	
63.428(h)(4)(ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4)(iii)	The reasons for the delay of repair; and	Y	
63.428(h)(4)(iv)	The date of successful repair	Y	
BAAQMD Condition # 1253	**Permit Conditions**		
Part IB	Total facility organic compound emissions shall not exceed 65.1 tpy [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	Organic emission shall not exceed 1.44 lb/1000 barrels for Vapor Control Equipment/Vapor Recovery System Emissions [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-13, S-14, S-15, S-16 – 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 – D
Source-specific Applicable Requirements
S-13, S-14, S-15, S-16 – 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 – D
Source-specific Applicable Requirements
S-13, S-14, S-15, S-16 – 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 K	**Standards of Performance for Volatile Organic Liquid Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978**	Y	
60.110(c)(2)	Affected tanks that are greater than or equal to 65,000 gallons	Y	
60.112(a)(1)	Vapor pressure is equal to or greater than 1.5 psia shall be equipped with a vapor recovery system, or their equivalent	Y	

IV. Source-specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-13, S-14, S-15, S-16 – EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.112(a)(2)	Vapor pressure is equal to or greater than 11.1 psia shall be equipped with a vapor recovery system, or their equivalent	Y	
60.113	Monitor of operations	Y	
40 CFR 63	**Standards of Performance for New Stationary Sources**	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	
63.15	Availability of Information and confidentiality	Y	
NSPS 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)	December 15, 1997 deadline	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 yr recordkeeping	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notification requirement	Y	
63.428(d)	Keep records and furnish reports	Y	
BAAQMD Condition # 1253	**Permit Conditions**		

IV. Source-specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-13, S-14, S-15, S-16 – EXTERNAL FLOATING ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part IIID, Schedule A	POC emission limitation [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	Tank Standing Emission Calculations [Basis: Regulation 8-5]	Y	

Table IV – E
Source-specific Applicable Requirements
S-20 – TANK TRUCK LOADING RACK

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	

IV. Source-specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-20 – TANK TRUCK LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(a)(1)	Affected Terminal	Y	
63.420(b)(1)	Affected Pipeline Breakout Station	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.422	Standards: Loading racks	Y	
63.422(a)	Comply with the requirements in § 60.502	Y	
63.422(b)	Emission Limitation ≤ 10 milligram/liter of gasoline loaded	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	

IV. Source-specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-20 – TANK TRUCK LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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)(3)	Continuous parameter monitoring system (CPMS), Temperature	Y	
63.427(b)	The vapor processing system operation	Y	
63.428	Reporting and recordkeeping	Y	
63.428(a)	The initial notifications	Y	
63.428(b)	Keep records of the test results for each gasoline cargo tank loading	Y	
63.428(b)(1)	Annual certification testing	Y	
63.428(b)(2)	Continuous performance testing performed at any time	Y	
63.428(b)(3)	The documentation file	Y	
63.428(b)(3)(i)	Name of test	Y	
63.428(b)(3)(ii)	Cargo tank owner's name and address	Y	
63.428(b)(3)(iii)	Cargo tank identification number	Y	
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	

IV. Source-specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-20 – TANK TRUCK LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(e)	Work practice program recordkeeping		
63.428(g)	Include information	Y	
63.428(g)(1)	Vapor tightness documentation	Y	
63.428(h)	Submit an excess emissions report	Y	
63.428(h)(1)	The report shall include the monitoring data	Y	
63.428(h)(2)	Vapor tightness documentation	Y	
63.428(h)(3)	Reloading of a nonvapor-tight gasoline cargo tank	Y	
63.428(h)(4)	Equipment leak	Y	
63.428(h)(4) (I)	The date on which the leak was detected	Y	
63.428(h)(4) (ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4) (iii)	The reasons for the delay of repair	Y	
63.428(h)(4) (iv)	The date of successful repair	Y	
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, existing	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	

IV. Source-specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-20 – TANK TRUCK LOADING RACK

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

IV. Source-specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S-20 – TANK TRUCK LOADING RACK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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 # 1253	**Permit Conditions**		
Part IA	POC, CO, NOx, SO2, PM emission limitations	Y	
Part IB	POC, CO, NOx, SO2, PM emission limitations	Y	
Part IIIA, Section 1	Report volume of gasoline throughput at the truck rack	Y	
Part IIID, Schedule A	POC emission limitation [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	NOX and Organic emission limitations [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

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)**		
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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.12	State authority and delegations	Y	
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)(iii)	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: 98 % weight when using combustion device	Y	
63.562(c)(4)	Or 1,000 ppmv outlet VOC concentration	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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.562(c)(6)(iv)	Curtailing marine vessel loading operations during maintenance	Y	
63.562(c)(6)(v)	Reduce emissions from other loading berths	Y	
63.562(c)(6)(vi)	Monitoring and reporting emissions from the loading berth	Y	
63.562(e)	Operation & maintenance requirements for air pollution control equipment	Y	
63.562(e)(1)	Determine compliance with design, equipment, work practice or operational emission standards	Y	
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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.563	Compliance and performance testing	Y	
63.563(a)(1)(i)	Vent stream by-pass requirements for the terminal's vapor collection system	Y	
63.563(a)(1)(ii)	Repairs	Y	
63.563(a)(2)	Ship-to-shore compatibility	Y	
63.563(a)(3)	Pressure/vacuum settings for the marine vessel's vapor collection equipment	Y	
63.563(a)(4)	Vapor tightness requirements	Y	
63.563(a)(4)(i)	Pressure test documentation	Y	
63.563(a)(4)(ii)	Leak test documentation	Y	
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)(4)	Combustion device, except flare	Y	
63.563(b)(4)(i)	Outlet VOC concentration limit for percent combustion efficiency	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.563(b)(4)(ii)	Baseline temperature for required percent combustion efficiency	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(e)	Combustion device, except flare		
63.564(e)(1)	Outlet VOC concentration	Y	
63.564(e)(2)	Operating temperature determined during performance testing	Y	
63.564(e)(3)	Manufacturer's recommended operating temperature	Y	
63.564(e)(4)	Temperature monitor	Y	
63.565(a)	Performance testing	Y	
63.565(b)	Pressure/vacuum se4ttings of marine tank vessel's vapor collection equipment	Y	
63.565(b)(1)	Calibrate and install a pressure measurement device	Y	
63.565(b)(2)	Connect the pressure measurement device to a pressure tap in the terminal's vapor collection system	Y	
63.565(b)(3)	Record the pressure	Y	
63.565(c)	Vapor tightness test procedures for the marine tank vessel	Y	
63.565(c)(1)	Pressure test	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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(d)(1)	Testing equipment preparation and installation	Y	
63.565(d)(2)	Test Performance during last 20% of loading	Y	
63.565(d)(3)	Emission testing interval	Y	
63.565(d)(3)(i)	Readings	Y	
63.565(d)(3)(ii)	Sampling sites	Y	
63.565(d)(3)(iii)	Volume exhaust	Y	
63.565(d)(4)	Combustion devices	Y	
63.565(d)(6)	VOC mass at the inlet and outlet calculation	Y	
63.565(d)(7)	VOC mass emission rate at the inlet and outlet calculation	Y	
63.565(d)(8)	Method 25 or 25A	Y	
63.565(d)(9)	Three repeats	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(j)	Baseline total stream flow	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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.565(m)(1)	Alternate test procedures	Y	
63.565(m)(2)	Administrator approval	Y	
63.566(a)	Construction and reconstruction	Y	
63.566(b)(1)	Application for approval of construction or reconstruction	Y	
63.566(b)(2)	General application requirements	Y	
63.566(c)	Approval of construction or reconstruction	Y	
63.567(a)	Recordkeeping and reporting	Y	
63.567(a)(1)(i)	Submittals sent by U.S. mail	Y	
63.567(a)(1)(ii)	Submittals sent by other methods	Y	
63.567(b)	Notification requirements	Y	
63.567(b)(1)	Applicability	Y	
63.567(b)(2)	Initial notification for sources with startup before the effective date	Y	
63.567(b)(2)(i)	Name and address	Y	
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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.567(b)(4)(iv)	Submit a notification of the actual date of startup	Y	
63.567(b)(5)(i)	Additional initial notification requirements	Y	
63.567(b)(5)(ii)	Alternate to reporting the information	Y	
63.567(c)	Request for extension of compliance	Y	
63.567(e)(1)	Schedule for summary reports and excess emission and monitoring system performance reports	Y	
63.567(e)(2)	Request to reduce frequency of excess emissions and continuous monitoring system performance reports	Y	
63.567(e)(2)(i)	Compliance for one full year	Y	
63.567(e)(2)(ii)	Continuous compliance with all recordkeeping and monitoring requirements	Y	
63.567(e)(3)	Notify administrator in writing for the frequency of reporting of excess emissions	Y	
63.567(e)(4)	Content and submittal dates for excess emissions and monitoring system performance reports	Y	
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	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.567(i)(8)	Test results	Y	
63.567(i)(9)	Documentation	Y	
63.567(i)(10)	Documentation on leak repaired	Y	
63.567(j)	Emission estimation reporting and recordkeeping procedures	Y	
63.567(j)(1)	Record of all measurements, calculations	Y	
63.567(j)(2)	Records of emission estimation	Y	
63.567(j)(3)	Submit annual report of the sources' HAP control efficiency	Y	
63.567(j)(4)	Record of throughput for 5 years	Y	
63.567(k)	Leak detection and repair of vapor collection systems and control device	Y	
63.567(k)(1)	Date of inspection	Y	
63.567(k)(2)	Findings (location, nature and severity of each leak)	Y	
63.567(k)(3)	Leak determination method	Y	
63.567(k)(4)	Corrective action	Y	
63.567(k)(5)	Inspector name and signature	Y	
BAAQMD Condition # 1253	**Permit Conditions**		
Part IA	POC, CO, NOx, SO2, PM emission limitations [Basis: Cumulative Increase]	Y	
Part IB	POC, CO, NOx, SO2, PM emission limitations [Basis: Cumulative Increase]	Y	
Part IIA	No tanker calling while engage in maintenance, repair, inspection [Basis: Recordkeeping]	Y	
Part IIB	Vapor and liquid leaks inspections for valves, pumps compressors [Basis: Reg. 8-18]	Y	
Part IIC	Leak check procedures and methods [Basis: NSPS]	Y	
Part IIIA, Section 3	Reid Vapor Pressure [Basis: Recordkeeping]	Y	
Part IIIB	Report number of vessels loaded on a quarterly basis [Basis: Recordkeeping]	Y	
Part IIIC	Valve, pump, compressor inspection and maintenance records [Basis: Recordkeeping]	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part IIID	All records required shall be kept for at least 5 years [Basis: Recordkeeping]	Y	
Part IIID, Schedule A	POC emission limitation [Basis: Cumulative Increase]	Y	
Part IIID, Schedule B	NOx emission limitation [Basis: Cumulative Increase]	Y	
Part IIID, Schedule C	SO2 emission limitation [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	Fugitive emission calculations [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	Vapor control equipment/vapor recovery system emission calculation [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D, Section A	Cargo loading emission calculation for uncontrolled loading [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D, Section B	Cargo loading emission calculation for controlled loading [Basis: Cumulative Increase]	Y	
Part IIID, Schedule E	Sulfur emissions [Basis: Reg. 9-1-303]	Y	
Part IV, Section 1	Deleted, initial startup source test requirement [Basis: Cumulative Increase]	N	
Part IV, Section 2	POC controlled shall be at least 95% by weight or less than or equal to 2 pounds per 1000 barrels loaded [Basis: Cumulative Increase]	Y	
Part IV, Section 3a	Install instrument to measure static pressure in marine tank vessel [Basis: Cumulative Increase]	Y	
Part IV, Section 3b	Install instrument to measure oxidizer exhaust temperature [Basis: Cumulative Increase]	Y	
Part IV, Section 3c	Install instrument to measure hydrocarbon concentration and flow rate to determine mass emission [Basis: Cumulative Increase]	Y	
Part IV, Section 4	Calculate emission caps from the emissions recorded by the continuous hydrocarbon monitor or use calculation method in Part IIID, Schedule D [Basis: Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV – F
Source-specific Applicable Requirements
S-21–MARINE VESSEL LOADING WHARF

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part IV, Section 5	Deleted, startup detail plan for monitoring equipment [Basis: Cumulative Increase]	N	
Part IV, Section 6	Marine loading shall be abated at all times by the marine vapor recovery systems [Basis: Cumulative Increase]	Y	
Part IV, Section 7	Temperature limitation [Basis: Cumulative Increase]	Y	
Part IV, Section 8	Report leak test on a quarterly basis [Basis: Reg. 8-44]	Y	
Part IV, Section 9	Loading pressure shall not exceed 80% of the lowest relief valve set pressure [Basis: Cumulative Increase]	Y	
Part IV, Section 10	All maintenance record shall kept for 5 years [Basis: Recordkeeping]	Y	
Part V	Removed, Shoreside vapor recovery units, A/C expired	N	
Part VI	Removed, A/C expired	N	

Table IV – G
Source-specific Applicable Requirements
S-23, S-24–OILY WATER SEPARATORS

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	
8-8-301.1	Wastewater separators greater than 760 liters day and smaller than 18.9 liters per second equipped with solid, gasketed, fixed cover	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	

IV. Source-specific Applicable Requirements

Table IV – G
Source-specific Applicable Requirements
S-23, S-24–OILY WATER SEPARATORS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-8-504	Portable hydrocarbon detector	Y	
8-8-603	Inspection procedures	Y	
BAAQMD Condition # 1253	**Permit Conditions**		
Part IIIA, Section 2	Report total volume of liquids processed on a quarterly basis [Basis: Cumulative Increase]	Y	

Table IV – H
Source-specific Applicable Requirements
S-27, AND S-28 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds-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	
8-5-311.3	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	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-27, AND S-28 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 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)(a)(3)	Vapor recovery system which collects at least 95% by weight	Y	
60.113(a)(a)(2)	Testing and Procedures for vapor recovery system	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	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-27, AND S-28 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.5	Construction and reconstruction	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.12	State authority and delegations	Y	
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)	Affected terminal	Y	
63.420(b)(1)	Affected pipeline breakout station	Y	
63.420(f)	Demonstrate compliance	Y	
63.420(g)	Most stringent control requirements	Y	
63.420(h)	Subject to the provisions of 40 CFR part 63, subpart A—General Provisions	Y	
63.420(j)	*Rules Stayed for Reconsideration*	Y	
63.423	Standards: Storage vessels		
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)(3)	Continuous parameter monitoring system (CPMS), Temperature	Y	
63.427(a)(5)	Alternative parameter demonstrates continuous compliance	Y	
63.427(b)	Operate the vapor processing system	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-27, AND S-28 - FIXED ROOF TANKS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.427(c)	Monitoring requirements in § 60.116b; 5 yr recordkeeping	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(e)	Work practice program recordkeeping	Y	
63.428(h)	Submit an excess emissions report to the administrator	Y	
63.428(h)(1)	Each exceedance or failure reports	Y	
63.428(h)(4)	Equipment leak	Y	
63.428(h)(4)(i)	The date on which the leak was detected	Y	
63.428(h)(4)(ii)	The date of each attempt to repair the leak	Y	
63.428(h)(4)(iii)	The reasons for the delay of repair; and	Y	
63.428(h)(4)(iv)	The date of successful repair	Y	
BAAQMD Condition # 1253	**Permit Conditions**		
Part IB	Total facility organic compound emissions shall not exceed 65.1 tpy [Basis: Cumulative Increase]	Y	
Part IIID, Schedule D	Organic emission shall not exceed 1.44 lb/1000 barrels for Vapor Control Equipment/Vapor Recovery System Emissions [Basis: Cumulative Increase]	Y	

Table IV-I
Source-specific Applicable Requirements
S-73, Direct Fired Heater

IV. Source-specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitation on Ground Level Concentration	N	
9-2-302	General Emission Limitations, or 9-1-304	Y	
9-1-304	Fuel Burning – Liquid and Solid Fuels, or 9-1-302	Y	
SIP Regulation 9, Rule 1	**PROVISIONS NO LONGER IN CURRENT RULE Inorganic Gaseous Pollutants – Sulfur Dioxide (5/3/84)**		
9-1-301	Limitation on Ground Level Concentration	Y[1]	
BAAQMD Regulation 9, Rule 7	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/16/92)**		
9-7-301	Emission Limits – Gaseous Fuel	Y	
9-7-301.1	Performance Standard, NOx	Y	
9-7-301.2	Performance Standard, CO	Y	
9-7-305	Natural Gas Curtailments – Non-Gaseous Fuel	Y	
9-7-305.1	Performance Standard, NOx	Y	
9-7-305.2	Performance Standard, CO	Y	
9-7-306	Equipment Testing – Non-Gaseous Fuel	Y	
9-7-306.1	Performance Standard, NOx	Y	
9-7-306.2	Performance Standard, CO	Y	
9-7-306.3	Operating Standard, Equipment Testing	Y	
9-7-401	Compliance Schedule	Y	
9-7-403	Initial Demonstration of Compliance	Y	
9-7-501	Combination of Different Fuels	Y	
9-7-502	Modified Maximum Heat Input	Y	
9-7-503	Records	Y	
9-7-503.1	304.2 Records	Y	
9-7-503.2	Records, Curtailment	Y	
9-7-503.3	306.3 Records	Y	
9-7-503.4	403 Records and Record Retention	Y	
9-7-601	Determination of Nitrogen Oxides	Y	
9-7-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	Y	
9-7-603	Compliance Determination	Y	
9-7-604	Tune-Up Procedures	N	

IV. Source-specific Applicable Requirements

Table IV-I
Source-specific Applicable Requirements
S-73, Direct Fired Heater

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 1253	**Permit Conditions**		
Part IIID, Schedule D	POC = 0.28 lb/1000 gal of fuel oil burned NOx = 55 lb/1000 gal of fuel oil burned SO2 = 78.5 lb/1000 gal of fuel oil burned [Basis: Cumulative Increase]	Y	
BAAQMD Condition # 13720	**Permit Conditions**		
Part 1	Natural gas usage limitation [Basis: Cumulative Increase]	Y	
Part 2	NOx limitation [Basis: BACT]	Y	
Part 3	CO limitation [Basis: BACT]	Y	
Part 4	NOx limitation when using diesel [Basis: BACT]	Y	
Part 5	Annual source test [Basis: Reg. 9-7]	N	
Part 6	Non-resettable natural gas flow meter [Basis: Cumulative Increase]	Y	
Part 7	Certification of fuel oil from sulfur [Basis: 2-6-409.2]	Y	

1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

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
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	

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
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	
NSPS 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	
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.

VI. Permit Conditions

VI. PERMIT CONDITIONS

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

Condition # 1253

For S-1 THROUGH S-16, S-18, S-19, STORAGE TANKS; S-20, TANK TRUCK LOADING RACK; S-21, MARINE VESSEL WHARF; S-23, S-24, OILY WATER SEPARATORS; S-27, S-28, FIXED ROOF TANKS; S-73, DIRECT FIRED HEATER:

I. EMISSION LIMITATIONS

A) ~~The cumulative increase in emissions as a result of this Authority to Construct shall not exceed the following levels during any calendar year:~~

~~Organic Compounds:~~	~~32.0 tons/year~~
~~Carbon Monoxide:~~	~~50.0 tons/year~~
~~Oxides of Nitrogen:~~	~~90.4 tons/year~~
~~Sulfur Dioxide:~~	~~34.7 tons/year~~
~~Particulate Matter:~~	~~23.0 tons/year~~

~~The above cumulative increase levels have been set to ensure that Permit Holder does not exceed offset and/or PSD trigger levels. Emission data required to verify these cumulative increases shall be submitted by Permit Holder on a quarterly basis as specified in condition III. [Basis: Cumulative Increase]~~ [Deleted, obsolete]

B) Total facility emissions from all sources, including organic loading emissions, shall not exceed the following levels during any calendar year. (Revised July 1, 1991) [Basis: Cumulative Increase]

Organic Compounds:	65.1 tons/year
Carbon Monoxide:	52.2 tons/year
Oxides of Nitrogen:	129.5 tons/year
Sulfur Dioxide:	83.5 tons/year
Particulate Matter:	25.8 tons/year

* ~~For the calendar year 1991 and 1992, the organic compound cap needs to be adjusted to accommodate limited trade vessels, which are exempt from Regulation 8-44 until July 1, 1992. The 1991 cap will be 72.6 tpy + up to 7.5 tpy + up to 15.0 tpy limited trade vessels emissions. (This paragraph may be deleted as of January 1, 1993)~~

II. GENERAL TERMINAL AND WHARF CONDITIONS

A) No tanker calling exclusively at the Terminal shall, while in California Coastal waters, engage in any maintenance, repair, inspection, washing, purging and gas freeing, or lightering of cargo tanks or any other operation (excepting loading and offloading, ballasting, and bunkering) that result in the escape of hydrocarbon vapor to the atmosphere, except that

VI. Permit Conditions

this does not prohibit emergency repairs. These activities shall be recorded on a District approved log and be made available to the District representative upon request. Any failure by the Permit Holder to report the activities listed above will subject them to appropriate enforcement action. Any emissions resulting from these unauthorized activities will be charged to the Permit Holder emissions cap. [Basis: Cumulative Increase]

B) Pumps, compressors, pump manifolds and pressure relief valves shall be inspected for visible vapor or liquid leaks on a daily basis. [Basis: Reg. 8-18]

C) The leak check procedures, testing methods, calibration procedures, definition of a leak, repair techniques, record keeping and report requirements shall be in accordance with the Federal NSPS for equipment leaks of VOC from onshore natural gas processing plants. [Basis: NSPS]

III. REPORTING REQUIREMENTS

A) The followings shall be reported to the District on the quarterly basis: [Basis: Cumulative Increase]

1. The total volume of gasoline throughput at the truck rack.

2. The total volume of liquids processed through the oil/water separators during the quarter.

3. For each marine vessel, which called at the Terminal during the quarter, the Permit Holder shall verify the following to the satisfaction of the APCO: the Reid vapor pressure of the previous cargo and previous port of call. For all vessels that the Permit Holder claims were "gas freed" prior to entering California Coastal waters, the Permit Holder shall supply documentation of this claim that is acceptable to the APCO. [Basis: Cumulative Increase]

B) Once the onshore vapor recovery system including vessel interconnection at the wharf ~~has been constructed and~~ is <u>in operation</u> ~~operational~~, the Permit Holder shall report to the District within 15 days after the close of each calendar quarter on the number of vessels that have been loaded at its marine terminal. These reports shall specify the percentage of said vessels which were hooked up to the Permit Holder's onshore vapor recovery system during said quarter. With respect to those vessels into which organic liquids were loaded without being hooked up to said system, these reports shall summarize the reasons given by Permit Holder's customers for their inability to secure vessels built or retrofitted to accommodate hook-up to said system. [Basis: Cumulative Increase]

C) Records shall be kept to document compliance with the valve, pump, and compressor

VI. Permit Conditions

inspection and maintenance requirements of condition II (C) above. [Basis: NSPS]

D) All records required to be maintained by Permit Holder under this permit shall be kept for at least ~~2~~ 5 years and made available to a District representative upon request. [Basis: Reg. 2-6-501]

SCHEDULE A

ORGANIC COMPOUND EMISSION CALCULATIONS

The sum of the following emission categories shall not exceed 65.1 tons, per calendar year of organic compounds.

Cargo Loading Emission + Tanker Transit Emissions +Tanker Hoteling Emissions + Tanker Pumping Emission + Vapor Control Equipment Emission + Ballast Emissions + Tug Combustion Emissions + Tank Standing Losses + Fugitive Emissions + Tank Withdrawal Losses.

All calculations shall be performed in accordance with the procedures specified in Schedule D. [Basis: Cumulative Increase]

VI. Permit Conditions

SCHEDULE B

OXIDES OF NITROGEN EMISSIONS CALCULATIONS

The sum of the following emission categories shall not exceed 129.5 tons per calendar year of oxides of nitrogen.

Tug Combustion Emissions + Tanker Hotelling Emissions + Tanker Transit Emissions + Tanker Pumping Emissions.

All calculations shall be performed in accordance with the procedures specified in Schedule D. [Basis: Cumulative Increase]

SCHEDULE C

SULFUR DIOXIDE EMISSION CALCULATIONS

The sum of the following emission categories shall not exceed 83.5 tons per calendar year of sulfur dioxide.

Tug Combustion Emissions + Tanker Hotelling Emissions + Tanker Transit Emissions + Tanker Pumping Emissions.

All calculations shall be performed in accordance with the procedures specified in Schedule E. [Basis: Cumulative Increase]

VI. Permit Conditions

SCHEDULE D

FUGITIVE EMISSION CALCULATIONS

Emission factors from AP-42, with 80% control due to the Inspection and Maintenance program required under condition III (C). [Basis: Cumulative Increase]

Existing Sources	Number	Emission Factor lbs/hr/source	Fugitive HC
Mixer & Pump Seals	17	0.045	0.782
Flanges	175	0.00056	0.098
Pipeline Valves	145	0.0005	0.0725
Open Ended Valves	95	0.005	0.4750
Pressure Relief Valves	1	0.36	0.36

Uncontrolled total, lbs/hr = 1.7875
Uncontrolled total, tons/yr = 7.83
Emissions at 80% control, tons/yr = 1.57

New Sources	Number(a)	Emission Factor lbs/hr/source	Fugitive HC
Mixer & Pump Seals	5	0.046	A x 0.046
Flanges	703	0.00056	B x 0.00056
Pipeline Valves	227	0.0005	C x 0.0005
Open Ended Valves	0	0.005	D x 0.005
Pressure Relief Valves	0	0.36	E x 0.36

Uncontrolled total, Total
Emissions at 80% control, Total x 0.2

a) Values for A, B, C, D & E to be determined from "as Installed" drawings or inspection.

VI. Permit Conditions

VAPOR CONTROL EQUIPMENT/VAPOR RECOVERY SYSTEM EMISSIONS

During operation of the thermal oxidizer its emissions (based on District Source Testing Data) will be assumed to be as follows: [Basis: Cumulative Increase]

NOx: 9.68 lb/day + 0.1744 lb/1,000 barrels of all materials received into tanks attached to the vapor recovery unit.

Organics: 1.44 lb/1,000 barrels of all materials received into tanks attached to the vapor recovery unit.

~~The vapor control equipment will be modified, expanded or replaced under the new Authority to Construct discussed in condition II above. Revised emission factors to account for tank farm emissions after this modification, expansion or replacement is completed will be determined from source tests to be performed by an independent laboratory.~~

FURNACE EMISSION CALCULATIONS

Organic Compounds	0.28 lb/1,000 gallons of fuel oil burned
NOx	55.00 lb/1,000 gallons of fuel oil burned
SO2	78.50 lb/1,000 gallons of fuel oil burned

TANK STANDING EMISSION CALCULATIONS (Tanks 13-16 only)

Calculate using equation 4 from AP-42 p 4.3-16 (9/85)

Where:

L(s) = K(s) x Vn x P* x D x M(v) x K(c)

L(s) = standing losses, lb/year of organics

K(s) = seal factor 1.2 for metallic shoe primary seal; 0.2 for rim mounted secondary seal.

V = average wind speed = 13 miles per hour

N = wind speed exponent = 1.5 for metallic shoe seal

P* = vapor pressure function

Note:

P for crude oils will be determined by monthly composite samples.

P for FCC feedstock, all gas oils and fuel oils = 0 for purpose of this calculation.

PA = atmospheric pressure = 14.7 psia

D = tank diameter = 237 feet

M(v) = molecular weight of vapor, 58 for gasoline and crude oil, 190 for No. 6 and all other products

K(c) = product factor = 0.4 for crude oil; = 1.0 for all other materials

VI. Permit Conditions

TANK WITHDRAWAL EMISSION CALCULATIONS

Calculate using equation 5 from AP-42 d 4-3-16 (9/85):

L(w) = 0.943 QCW/D
where:
L(w) = withdrawal losses = lb/yr of organics
Q = throughput, bbl/year
C = shell clingage factors = 0.006
W = liquid density, lb/gal
Use:
8.2 for San Joaquin Valley Crude Oil and
7.8 for all other products if unknown
D = tank diameter = 237 feet

CARGO LOADING EMISSION CALCULATIONS

A) UNCONTROLLED LOADING

Crude Oil Cargos

The three following procedures are taken from API Publication 2514A Second Edition, September 1981 and are described on pp 1-3 of that document as "Correlations for Estimating Emissions from Loading and Ballasting of Crude Oil Tankers".

1. Cargos with no vapor pressure data available:

   If information on the prior cargo and compartment status during ballast voyage as well as volatility of the crude of which Permit Holder loaded is unknown, the following emission factors shall be used.

   All vessels: 1.0 pounds of VOC per 1,000 gallons of liquid transferred.
2. For crude oil cargos with vapor pressure greater than 1.5 psia:

   a) When the prior cargo or arrival condition of the vessel is unknown and the volatility of the crude oil, which Permit Holder loaded is known, an arrival emission factor, Ea, of .86 lb/1,000 gallon loaded will be used. Generated emission shall be calculated as:

      Eg = 1.84 x (0.44 x (TVP) - 0.42) x MxG/T
      where:

VI. Permit Conditions

Eg = generated emission, lb/1,000 gallon
TVP= true vapor pressure of loaded crude oil, psia
M = molecular weight of vapor, use 58 lb/lb-mole
G = vapor growth factor, use 1.02
T = loading temperature, Rankine

Total emission shall be calculated as:
Et = Ea + Eg
where:
Et = total loading emission, lb/1,000 gallon
Ea = arrival component
Eg = generated component

b) If adequate information is available about a specific previous cargo the following calculation procedures shall be used. These procedures require a characterization of the previous cargo as either "volatile" or "non-volatile" at loading conditions. "Volatile" has been defined as having a true vapor pressure at loading conditions in excess of 1.5 psia. Any crude stream which has flash point in excess of 130F or initial boiling point excess of 302F shall be deemed to be "non-volatile" at loading conditions. The Permit Holder shall be permitted to determine that crude oils not meeting this test are "non-volatile" by any of the three procedures described below:

i. The ship owner or charterer may inform the Permit Holder in writing of the true vapor pressure at loading conditions, that the true vapor pressure did not exceed 1.5 psia, or of the Reid Vapor Pressure and loading temperature; or

ii. The vessel owner, charterer or prior load terminal operator may inform the Permit Holder of the identity of the crude stream in the prior load. The crude stream may be characterized by reference to typical samples of assays of such streams along with the prior loading temperature to determine the true vapor pressure; or

iii. The ship owner, charterer, or terminal operator for the prior load may provide assay data or samples to determine Reid Vapor Pressure. Data for loading conditions from a knowledgeable source shall be used to determine true vapor pressure at loading conditions.

Emissions from loading shall be calculated as:

Et = Ea + Eg
where:
Et = total loading emission, lb/1,000 gallon
Ea = arrival component

VI. Permit Conditions

Eg = generated component

Arrival Emission Factor, lb/1000 gallon

Previous Cargo	Condition of Compartment	Arrival Emission factor
Non-Volatile	Any	0.33
Volatile	Washed or Gas Freed	0.33
Volatile	Ballasted	0.46
Volatile	Uncleaned	0.86

If the prior cargo is unknown, it shall be assumed to be volatile. If the condition of the compartment is unknown, it shall be assumed to be uncleaned.

Eg = 1.84 x (0.44 x (TVP) - 0.42) x MxG/T
where:

Eg = generated emission, lb/1,000 gallon
TVP= true vapor pressure of loaded crude oil, psia
M = molecular weight of vapor, use 58 lb/lb-mole
G = vapor growth factor, use 1.02
T = loading temperature, Rankine

VI. Permit Conditions

3. For crude oil Cargos with true vapor pressure less than 1.5 psia, emissions from loading non-volatile crude oils shall be calculated as:

   Et = Ea + Eg
   where:
   Et = Total loading emission, lb/1,000 gallon
   Ea = Arrival Emission
   Eg = Generated Emissions
   Ea = 12,46 SPaM/T
   Eg = 12,46 SPgM/T
   Where:
   S = 0.2 for ships and ocean barges 0.5 for barges
   Pa = True vapor pressure of prior cargo, psia = zero if tank has been water washed or gas freed = 0.75 psia if no data available.
   Pg = true vapor pressure of crude oil loaded, psia
   M = molecular weight or vapors, use 58 lb/lb-mole
   T = loading temperature, Rankine

VI. Permit Conditions

Gasoline Cargos

1. If information on the vessels' prior cargo and ballast voyage treatment is unknown the following emission factors shall be used.

	Total Loading Emission lb/1,000 gallon
Gasoline - Tanker/Ocean Barges	2.6
Gasoline – Barges	3.9

Note: Ocean barges are assumed to have a capacity greater than 100,000 bbls.

2. If adequate information is available, the following loading factors shall be used:

			Total Loading Emissions (lbs VOC/1,000 bbl loaded)		
Type of Vessel	Prior Cargo	Condition of Compartment	minimum ullage less than 10ft	minimum ullage between 10&20ft	minimum ullage more than 20ft
Tanker/Ocean Barge	Volatile	Uncleaned	109.2	94.5	79.8
		Ballasted	71.4	56.7	42.0
		Cleaned (washed)	63.0	48.3	33.6
		Gas Freed	29.4	4.7	0.0
	Non-Volatile	All	29.4	14.7	0.0
Barge less than 100,000 barrels capacity					
	Volatile	Uncleaned	163.8	163.8	163.8
		Ballasted	84.0	84.0	84.0
		Cleaned (washed)	84.0	84.0	84.0
		Gas Freed	84.0	84.0	84.0
	Non-Volatile	All	84.0	84.0	84.0

Volatile liquid is any hydrocarbon liquid with a true vapor pressure greater than 1.5 psia.

An Uncleaned compartment has had no treatment of any kind except routine heel washing.

A Ballasted compartment is an uncleaned cargo compartment that has been loaded with ballast water.

VI. Permit Conditions

A cleaned compartment has been water washed.

A gas-freed compartment has been cleaned and airblown, such that the compartment is suitable for entry and hot work (such as welding).

VI. Permit Conditions

Distillate Fuels

1. If adequate information on the vessel's prior cargo and ballast voyage treatment is available, the following emission factors shall be used to calculate emissions from loading diesel fuel and kerosene based jet fuels:

Total Loading Emissions
(lbs VOC/1,000 bbl loaded)

Type of Vessel	Prior Cargo	Condition of Compartment	Emission Factor
Tanker/Ocean Barge	Volatile	Uncleaned	79.8
		Ballasted	42.0
		Cleaned (washed)	33.6
		Gas Freed	0.0
	Non-Volatile	All	0.0
Barge less than 100,000 barrels capacity			
	Volatile	Uncleaned	163.8
		Ballasted	84.0
		Cleaned (washed)	84.0
		Gas Freed	0.0
	Non-Volatile	All	0.0

Volatile liquid is any hydrocarbon liquid with a true vapor pressure greater than 1.5 psia.

Definitions for compartment condition are the same as set forth above under gasoline cargos.

2. If any of the information necessary to ascertain the prior cargo or compartment condition of the vessels being loaded is unknown, the applicable worst case assumption from the table above shall be used.

VI. Permit Conditions

Other Volatile Cargos

Volatile organic compounds, other than gasoline or volatile crude oil, may be loaded at the Martinez Shore Oil terminal. Emissions from loading those materials shall be calculated as follows:

$$Et = 12.47\ SPM/T$$

where:

Et = Total loading emission, lb/1,000 gallon loaded
S = 0.2 for ships and ocean barges 0.5 for barges
P = True vapor pressure of prior cargo, psia
M = molecular weight of vapors, use 58 lb/lb-mole
T = loading temperature, Rankine

For naphtha-based jet fuels, P will depend on the type of product (see AP-42, Table 4.3.2, Physical Properties of Typical Organic Liquids)

For other volatile organic liquids, Permit Holder shall obtain the data.

Volatile liquid is any hydrocarbon liquid with a true vapor pressure greater than 1.5 psia.

VI. Permit Conditions

Fuel Oil and Other Non-Volatile Cargos

Non-volatile organic materials other than non-volatile crude oils and distillate fuels may be loaded at the Permit Holder terminal.

1. If adequate information on the vessel's prior cargo and ballast voyage treatment is available, the following emission factors shall be used to calculate emissions from the loading of fuel oil and other non-volatile cargos:

Total Loading Emissions
(lbs VOC/1000 bbl loaded)

Prior Cargo:	Crude Oil		Gasoline/ Other Volatile Organics	Diesel/ Kero Jet Fuel	Fuel Oil Other Non-Volatile Organics
	Volatile	Non-Volatile			
Condition of Compartment					
Uncleaned	30.7	11.8	79.8	0	0
Ballasted	16.4	11.8	42.0	0	0
Water Washed	11.8	11.8	33.6	0	0
Gas Freed	0	0	0	0	0

Volatile liquid is any hydrocarbon liquid with a true vapor pressure greater than 1.5 psia.

Definitions for compartment condition are the same as set forth above under gasoline cargos

2. If any of the information necessary to ascertain the prior cargo of compartment condition of the vessels being loaded is unknown, the applicable worst case assumption from the table above shall be used.

B) CONTROLLED LOADING

For all cargos carried on vessels for which vapor emissions during loading are controlled either by connection to the onshore vapor recovery system or by use of onboard vapor processing equipment the emissions after control shall be based on the uncontrolled emissions level modified by a factor representing redaction. Such factors shall be determined by source tests, approved by the APCO, and shall reflect operating characteristics of the actual vapor control equipment.

a + BEt

where:

VI. Permit Conditions

a = a constant independent of the cargo loaded or uncontrolled loading emissions.
b = a constant
Et = uncontrolled level of loading emissions

BALLASTING EMISSION CALCULATIONS

Gasoline and Gasoline Components
1.6 lb/1,000 gallons unsegregated ballast water

Unsegregated Ballast Volume M-gallons =
42 x 7.5 x MDWT x (.15 - % segregate ballast/100)

MDWT = ship's displacement in thousands of dead-weight tons

CARGO PUMPING EMISSIONS

Emissions (lbs) = factor x (volume of cargo offloaded, Mbbls)

	Factor lb/Mbbls	
Ship Size	Organic	NOx
For Steam Vessels	0.09	0.67
For Other Vessels	0.09	1.08
For Barges	0.39	1.08

SOx emissions for cargo pumping shall be calculated as shown in Schedule E.

VI. Permit Conditions

TRANSIT EMISSION CALCULATIONS

Ship Type	Fuel Consumption	Total Fuel Used 9 hrs		Emissions During 9 hrs Transit & Maneuvering		
Size	Gal/hr	Transit	Part	Org	NOx	CO
20	210	1890	35.9	5.9	91.1	5.0
20- 29	341	3069	58.3	9.5	147.9	8.0
30- 39	394	3546	67.4	11.0	170.9	9.3
40- 49	459	4131	78.5	12.8	199.1	10.8
50- 59	630	4959	94.2	15.4	239.0	13.0
60- 79	761	5670	107.7	17.6	273.3	14.9
80- 99	840	6849	130.1	21.2	330.1	17.9
100-139	906	7560	143.6	23.4	364.4	19.8
Motor						
20	105	945	18.9	31.0	355.3	53.8
20- 29	236	2124	42.5	69.7	779.5	120.9
30- 39	289	2600	52	85.3	954.2	147.9
40- 49	341	3070	61.4	100.7	1126.7	174.7
50- 59	354	3190	63.8	04.6	1170.7	181.5
60- 79	394	3546	70.9	116.3	1301.4	201.8
80- 99	405	4131	2.6	135.5	1516.1	235.1
100-139	551	4959	99.2	162.7	1819.9	282.2

SOx emissions for ship transit shall be calculated according to the procedures specified in Schedule E.

Ships calling at Bay Area Locations other than Permit Holder during the same trip shall be charged only one half of the transit emissions from the above tables.

VI. Permit Conditions

HOTELLING EMISSION CALCULATIONS

Emission = factor x hours at dock

	Factor lb/hr	
Ship Size	Organic	NOx
less than 60 MDWT	.13	1.53
greater than 60 MDWT	.27	3.06
For Motor Vessels and Others		
less than 70 MDWT	.22	2.28
greater than 70 MDWT	.44	4.57
for barges, all sizes	0	0

SOx emission for hotelling shall be calculated as shown in Schedule E.

TUG EMISSION CALCULATIONS

For ships, Emission = factor x for all vessel calls

For barges, Emissions = factor for barges calling at other Bay Area Location
= factor x2, for barges calling only at the Martinez terminal

	Factor lb/call		
Ship	Organic	NOx	SOx
less than 50 MDWT	3.41	150	18.6
greater than 50 MDWT	6.81	299	37.2
Barges			
less than 100,000 barrels capacity	5.11	224	27.9
greater than 100,000 barrels capacity (Ocean Barges)	10.22	449	55.8

VI. Permit Conditions

SCHEDULE E

Sulfur emissions will be based on the actual sulfur content fuels burned where possible. Permit Holder shall have three alternative procedures available for establishing the sulfur content of fuels. First, Permit Holder may provide fuel of known sulfur content to the ship. Second Permit Holder may sample the ship's fuel for analysis by an outside laboratory qualified to perform Sulfur analyses on marine fuels. Third, in the absence of either of the two procedures mentioned above, assumed values below shall be used.

If Permit Holder elects to provide low sulfur fuel to a particular ship, a certified fuel analysis of the Sulfur content shall be used to establish SO2 emissions. The Permit Holder terminal manager shall instruct the ship's captain or his designated to burn only that fuel while within the District waters. The amount of fuel provided shall be adequate to fuel all the ship's requirements for hotelling, pumping and transit. A sample of the fuel provided shall be retained by Permit Holder for District analysis until at least 90 days following delivery of the quarterly report including that particular ship call. Records of the quantity of fuel provided, sulfur content, and burning instructions shall be retained by Permit for at least ~~one~~ five year following the ship call.

If Permit Holder elects to sample the fuel from a particular ship, such sample shall be gathered by the ship's personnel and delivered to permit Holder. This sample shall contain at least one-quart volume. After analysis the remaining portion of the samples shall be retained at the terminal and made available to the district for their independent analysis. All such samples shall be retained for at least 90 days following delivery of the quarterly report to the District. Samples for a calendar quarter may be combined by blending thoroughly equal parts of each sample gathered for each type of ship, that is one composite sample for steam ships and one composite sample for motor and other ships. At Permit Holder's option, each ship sample may be analyzed separately. An independent laboratory shall analyze such samples and the results of those analyses shall be used to establish sulfur emissions. Permit Holder shall report to the District results of all analyses performed. Any failure by Permit Holder to report the sulfur analyses will subject them to an appropriate enforcement action.

If Permit Holder neither samples the fuel from any given ship, nor provides fuel to the ship, the sulfur content of that fuel shall be assumed to be 3.34% in the case of steam ships, or 1.5% in the case of motor ships and other ships. In the event that Permit Holder samples and cause to be analyzed fuels from at least 66.67% of all ships calling at terminal in a calendar year to which fuel was not provided, the weighted average of sample results may be used in the following calendar year in lieu of the assumed sulfur values described in the preceding paragraph. In calculating the weighted average, each analysis shall be weighted by the number of ships represented by that analysis, i.e., one if the sample was an individual ship sample or more than one if the sample was composite sample. The results of such analyses are subject to verification by the District and samples shall be available upon demand for that purpose. If

VI. Permit Conditions

Permit Holder samples and reports fewer than 66.67% of all ships to which fuel was not provided in a given calendar year, the assumptions for the following year shall be 3.34% for steam ships and 1.5% for motor and other ships. [Basis: Reg. 9-1-303]

TRANSIT EMISSION CALCULATIONS

Emissions per call = factor x fuel sulfur index
(for vessels calling at other Bay Area locations)

Emissions per call = factor x fuel sulfur index x 2
(for vessels calling only at Terminal)

Factors

Ship size	MDWT	Steam Vessels	Motor & Other
less than	30	244	75
	30-40	282	169
	40-50	328	207
	50-60	394	244
More than	60	451	254

CARGO PUMPING EMISSION CALCULATIONS

Sulfur oxide emissions for offloading cargos from marine vessels to shore tanks shall be calculated as follows:

$$\text{Emissions} = \frac{\text{fuel sulfur index}}{3.34} \times \frac{315 \text{ lb } SO_2}{\text{M gal fuel}} \times \frac{32 \text{ lb S}}{64 \text{ lb } SO_2}$$

VI. Permit Conditions

HOTELLING EMISSION CALCULATIONS

Barges have no hotelling emissions.

Hotelling emissions will be calculated for ship as follows:

Emissions = R-factor x Hotelling time (hours) x R-Fuel
Sulfur Index + D-factor x Hotelling time x
D-Fuel Sulfur Index
Hotelling time = Hours from time the vessel is secure at the wharf until the time the last line is cast off.

Factors are as follows:

	Steam Ships		Motor & Other	
Ship size,MDWT	R-Factor	D-Factor	R-Factor	D-Factor
less than 60	6.68	0.0	6.68	3.34
60-70	13.36	0.0	6.68	3.34
Greater Than 70	13.36	0.1	13.36	6.68

IV MARINE VESSEL LOADING VAPOR COMBUSTION UNIT (A-41)

1. ~~Within three months after initial start-up, Permit Holder shall conduct District approved source tests for NMHC to demonstrate compliance with District Regulation 8-44-301. Permit Holder shall also conduct District approved source tests for NOx, SOx, and CO. Permit Holder shall conduct the test to demonstrate compliance at the maximum loading conditions which occur during the initial start-up period and determine emission factors for NOx, SOx, and CO. If the maximum design condition does not occur during this initial startup period, additional testing will be required to verify all emissions at the higher range~~. [Deleted, startup source test].

2. Permit Holder shall perform necessary source tests to establish a specific range of combustion zone temperatures which will ensure that the emissions of precursor organic compounds are reduced at least 95% by weight from uncontrolled conditions, or that the POC emissions do not exceed 2 lbs per 1000 barrels loaded. [Basis: Cumulative Increase]

VI. Permit Conditions

3. Permit Holder shall install instrumentation to monitor and record the following: [Basis: Cumulative Increase]

   a. Static pressure developed in the marine tank vessel,

   b. Oxidizer exhaust temperature, and

   c. Hydrocarbon concentration and flow rate to determine mass emissions, or

      i. A concentration measurement alone if Permit Holder can demonstrate to the satisfaction of the APCO that concentration alone provides adequate assurance of compliance, or

      ii. Any other method or device that adequately verifies compliance, with prior approval from the APCO.

   The need for the hydrocarbon analyzer will be reviewed by the APCO prior to issuance of the initial permit to operate.

4. Hydrocarbon emissions charged to the annual marine and facility emission caps will be the emissions recorded by the continuous hydrocarbon monitor. If the monitor is not operating, Permit Holder shall calculate uncontrolled emissions as specified in Schedule D of the Permit Conditions established as part of application number 31329, and use a 95% (by weight) reduction factor to determine controlled emissions. The overall collection and control efficiency, as determined by source test, may be used in lieu of the 95% factor for determining controlled emissions. [Basis: Cumulative Increase]

5. ~~Prior to the start-up of the equipment, Permit Holder shall submit plans and specifications for the monitoring equipment required, details of the sampling facilities to be installed pursuant to Condition #3 above, and obtain approval from the APCO~~. [Deleted, startup monitoring plan].

6. Permit Holder shall not load or permit the loading of a regulated organic liquid, as defined in Regulation 8, Rule 44, Section 204, into a marine tank vessel within the District whenever the marine vapor recovery system is not fully operational, except for operations specifically exempt from Regulation 8, Rule 44. The vapor recovery system shall be maintained to be leak free, gas tight, and in good working order. For the purposes of this condition, "fully operational" shall mean the system is achieving the reductions required by Condition No. 2 above. [Basis: Cumulative Increase]

7. ~~The vapor recovery system shall be operated such that the temperature of the exhaust from~~

VI. Permit Conditions

~~the incinerator is greater than 1400F. This 1400F temperature limitation shall be re-evaluated for consistency with the data provided pursuant to Condition #2 and adjusted, if necessary, to assure compliance with all applicable permit conditions.~~
The minimum incinerator temperature of A-41 shall be at least 1400°F. The vapor recovery system is not "fully operational" at any lower temperature. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition No. 2 above. [Basis: Reg. 2-1-403]

The facility may conduct a source test for the purpose of lowering the minimum temperature requirement provided that the following has occurred:
a. The facility has applied to the Permit Services Division for a change of conditions.
b. The Source Test Section was notified at least seven days prior to testing and the test protocol was deemed acceptable.
c. The results of the test demonstrate that Aa-41 is capable of meeting the emission factor limits imposed in Condition No. 2for POC fat the lower operating temperature. [Basis: Reg. 2-1-403]

8. A leak test shall be conducted on all vessels loading under positive pressure prior to loading more than 20% of the cargo. The leak test is not intended to impede the loading of a gas-tight tank vessel. The leak test shall include all vessel relief valves, hatch covers, gauging connections, and vapor recovery hose connections. Leak test results shall be included in the quarterly reporting already required of the Permit Holder. [Basis: Reg. 8-44]

9. Permit Holder shall not exceed a loading pressure greater than 80% of the lowest relief valve set pressure, including vessel relief valves, while loading a controlled marine vessel. [Basis: Cumulative Increase]

10. All maintenance records required for the vapor recovery system at this facility, which are subject to Regulation 8, Rule 44, shall be kept on site for ~~two~~ five years and made available to the District upon request. [Basis: Recordkeeping]

V. SHORESIDE VAPOR RECOVERY UNITS (A-42 & 43) Removed due to expired A/C.

VI. TANKAGE (S-1 & 2) Removed due to expired A/C.

COND# 9005

For S-1 through S-16, S-18, S-19, Storage tanks; S-20, Tank Truck Loading rack; S-21, Marine Vessel Wharf; S-23, S-24, Oily Water Separators; S-27, S-28, Fixed Roof tanks.

VI. Permit Conditions

1. POC emissions from A-2 and/or A-41 Afterburners shall not exceed 1.44 pounds per 1000 barrels transferred. This condition applies during all of the following events:
   a. when non-exempt organic compounds (as defined in District Regs 2-1-206 and 2-1-123) are being stored in or transferred to storage tanks S-1 - S-12, S-18, S-19, S-27, S-28, ~~S-50 through S-72~~;
   b. when organic liquids with a true vapor pressure of 1.5 psia or greater are being loaded at truck rack S-20; and/or
   c. when organic liquids (as defined in District Reg 8-44-204) are loaded at marine wharf S-21. [Basis: BACT]

2. Storage Tanks S-1 through S-12 ~~& S-50 thru S-72~~, S-18, S-19, S-27, S-28, Truck Rack S-20, Marine Wharf S-21 shall be abated at all times of operation by either the A-1 Lean Oil Absorption System and the A-2 Afterburner or A-41 Afterburner. [Basis: Cumulative Increase]

3. ~~The owner/operator of A-41 and A-2 shall conduct a District approved source test at each afterburner within 30 days of the start-up to prove compliance with condition #1. To the extent practicable, the source test shall be conducted under worst case conditions (i.e., a warm day with a maximum loading operation).~~ [Deleted, startup source test]

4. Facility emissions shall be calculated in accordance with the procedures described in Condition #1253. Total facility emissions of POC's shall not exceed 86.5 tons in any consecutive 12-month period. [Basis: Cumulative Increase]

~~5. The total combined non-exempt throughput of S-50 thru S-67 shall not exceed 12,000,000 barrels in any consecutive 12 month period. The District shall adjust this throughput limit and the emission rate limitation in permit condition #1 if the owner/operator of this facility is able to demonstrate, to the satisfaction of the APCO, that an emission rate less than 1.44 lb POC/1000 bbl is achievable on a consistent basis. [Basis: Cumulative Increase]~~ [Deleted, sources S-50 thru S-72 have not been constructed, permit expired]

~~6. The total combined non-exempt throughput of S-68 thru S-72 shall not exceed 12,000,000 barrels in any consecutive 12 month period. The District shall adjust this throughput limit and the emission rate limitation in permit condition #1 if the owner/operator of this facility is able to demonstrate, to the satisfaction of the APCO, that an emission rate less than 1.44 lb POC/1000 bbl is achievable on a consistent basis. [Basis: Cumulative Increase]~~ [Deleted, sources S-50 thru S-72 have not been constructed, permit expired]

COND# 9005 ----------

For S-1 through S-16, S-18, S-19, Storage tanks; S-20, Tank Truck Loading rack; S-21, Marine Vessel Wharf; S-23, S-24, Oily Water Separators; S-27, S-28, Fixed Roof tanks.

VI. Permit Conditions

~~7. The owner/operator shall maintain a District approved monthly log of all throughput at S-50 thru S-72. This log shall be kept on site and made available to District Staff upon request. [Basis: Record Keeping]~~ [Deleted, sources S-50 thru S-72 have not been constructed, permit expired]

8. All pumps in organic liquid service at the facility shall be subject to the inspection and maintenance requirements of Regulation 8, Rule 18 ~~25~~. This condition shall apply to pumps in both heavy and light organic liquid service. ~~All pumps associated with S-50 through 67 in light organic liquid service shall be equipped with double mechanical seals. All pumps associated with S-68 through S-72 in light organic liquid service shall be equipped with double mechanical and barrier fluid seals. POC Leaks from pumps associated with S-68 through S-72 shall not exceed 500 ppm.~~ [Basis: Reg. 8-18]

~~9. Storage Tanks S-50 - 72 shall be equipped with soft seat pressure relief valves. These pressure relief valves shall be properly installed and properly operated, and shall not open under normal operating conditions and thereby allow bypassing of A-2 and/or A-41. [Basis: Reg. 8-18]~~ [Deleted, sources S-50 thru S-72 have not been constructed, permit expired]

~~10. The owner/operator of S-50 thru S-72 shall use graphitic-type packing (or District approved equivalent) on all valves and shall use graphitic-type gaskets on all flanges associated with this project. POC leaks from valves and flanges shall not exceed 100 ppm. [Basis: Reg. 8-18]~~ [Deleted, sources S-50 thru S-72 have not been constructed, permit expired]

*11. The average benzene concentration in all hydrocarbon liquids stored in Storage Tanks at this facility shall not exceed 4% by weight. The owner/operator of the facility shall analyze all materials stored in these tanks for benzene concentration at least once every 6 months. These records shall be kept on file for at least ~~2~~ 5 years after the date of entry and shall be made available to District personnel upon request. [Basis: Toxics]

VI. Permit Conditions

COND# 13720
S-73, DIRECT FIRED HEATER

1. Total natural gas usage at S-73 shall not exceed 90 million standard cubic feet (scf) in any consecutive 12-month period. This consecutive 12 month 90 million scf gas-firing limit shall be reduced by 454 scf for every gallon of diesel fuel fired during the same consecutive 12-month period. [Basis: Cumulative Increase]

2. S-73 NOx concentrations shall not exceed 20 ppmv @ 3% O2 as determined using District Source Test Method 13 A or B. This condition shall become effective upon completion of the start up/commissioning period as specified in condition #5. [Basis: BACT]

3. S-73 CO concentrations shall not exceed 50 ppmv @ 3% O2 as determined using District Source Test Method 6. [Basis: BACT]

4. S-73 shall be fired exclusively on natural gas except for times of force major natural gas curtailment as defined in Regulation 9-11-208. NOx emissions from S-73 shall not exceed 60 ppmv @ 3% O2 when firing on diesel as determined using District Source Test Method 13 A or B. [Basis: BACT]

5. The owner/operator shall conduct a District approved source test ~~within 60 days of start up of S-73 and~~ annually thereafter in order to determine compliance with condition numbers 2, 3, Regulation 9-7-301.1 and Regulation 9-7-301.2 ~~and 4~~. All source testing shall be performed in accordance with the District's Manual of Procedures. The facility shall receive approval from the District's Source Test Manager for installation of test ports and source testing procedures. The results shall be delivered to the District no later than 30 days from the date of the source test. [Basis: Reg. 9-7]

6. The owner/operator shall use a non-resettable natural gas flow meter in order to demonstrate compliance with condition #1. Natural gas and diesel fuel usage shall be recorded in a District approved monthly log and retained for at least ~~2~~ 5 years from the date of entry. This log shall be kept on site and made available to District staff upon request. [Basis: Record Keeping]

7. Within 1 month of issuance of the Title V Permit, the permit holder shall analyze a sample of distillate oil in the fuel oil tank for sulfur content to ensure compliance with Regulation 9-1-304. The sample shall be analyzed using District Method 10, Determination of Sulfur in Fuel Oils. The results of the analysis shall be sent to the Director of Enforcement and compliance at the District. All subsequent shipments of fuel oil to the facility shall have a vendor certification of the sulfur content of the fuel. [Basis: 2-6-409.2]

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 THROUGH S-10 - 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 # 1253, part IV, Section 3b	C	Continuous Temperature Monitor
POC	BAAQMD 8-5-328.2	Y		Tank cleaning ≥ 90% control, POC concentration < 10,000 ppm	None	None	None
POC	Subpart K 40 CFR 60.112(a)(1)	Y		Vapor Recovery System	Subpart K 40 CFR 60.113(d)(2)	None	None
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
POC	BAAQMD Condition # 1253, part IIID	Y		1.44 pounds/1000 barrels	BAAQMD Condition # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 THROUGH S-10 - 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
NOx	BAAQMD Condition # 1253, part IB	Y		129.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
NOx	BAAQMD Condition # 1253, part IIID, schedule D	Y		9.68 lb/day plus 0.1744 pounds/1000 barrels	None	None	Source test
CO	BAAQMD Condition # 1253, part IB	Y		52.2 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
SO2	BAAQMD Condition # 1253, part IB	Y		83.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
PM	BAAQMD Condition # 1253, part IB	Y		25.8 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-11 - 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 8-5-302	Y		Pressure-Vacuum valve set with 10% of maximum allowable working pressure	None	N	
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-12, S-18, AND S-19 - 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 $\geq$ 95% weight	BAAQMD Condition # 1253, part IV, Section 3b	C	Continuous Temperature Monitor
POC	BAAQMD 8-5-328.2	Y		Tank cleaning $\geq$ 90% control, POC concentration < 10,000 ppm	None	None	None
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-12, S-18, AND S-19 - 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 # 1253, part IIID	Y		1.44 pounds/1000 barrels	BAAQMD Condition # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor
NOx	BAAQMD Condition # 1253, part IB	Y		129.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
NOx	BAAQMD Condition # 1253, part IIID, schedule D	Y		9.68 lb/day plus 0.1744 pounds/1000 barrels	None	None	Source test
CO	BAAQMD Condition # 1253, part IB	Y		52.2 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
SO2	BAAQMD Condition # 1253, part IB	Y		83.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
PM	BAAQMD Condition # 1253, part IB	Y		25.8 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-13, S-14, S-15, S-16 – 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 - D
Applicable Limits and Compliance Monitoring Requirements
S-13, S-14, S-15, S-16 – 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 8-5-328.2	Y		Tank cleaning ≥ 90% control, POC concentration < 10,000 ppm	BAAQMD 8-5-404.3, 8-5-502	P/A	Source Test
POC	Subpart K 40 CFR 60.112(a)(1)	Y		Floating Roof requirement	40 CFR 60.113(a),(b),(c)	None	Records
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-20 – TANK TRUCK 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 # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor
POC	BAAQMD 8-33.309	Y		Tank gauge pressure < 46 cm (18 inch) of water column	N	P/E	Pressure measurement device
POC	Subpart R 40 CFR 63.422(b)	Y		TOC ≤ 10 milligram per liter loaded	BAAQMD Condition # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor
POC	Subpart XX 40 CFR 60.502(c)	Y		Emission < 80 milligram/liter	BAAQMD Condition # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor
POC	Subpart XX 40 CFR 60.502(h)	Y		Tank gauge pressure ≤ 4,500 pascals (450 mm of water)	BAAQMD Condition # 1253, part IV, Section 3	P/E	Pressure measurement device
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
POC	BAAQMD Condition # 1253, part IIID	Y		1.44 pounds/1000 barrels	BAAQMD Condition # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-20 – TANK TRUCK LOADING RACKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition # 1253, part IB	Y		129.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
NOx	BAAQMD Condition # 1253, part IIID, schedule D	Y		9.68 lb/day plus 0.1744 pounds/1000 barrels	None	None	
CO	BAAQMD Condition # 1253, part IB	Y		52.2 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
SO2	BAAQMD Condition # 1253, part IB	Y		83.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
PM	BAAQMD Condition # 1253, part IB	Y		25.8 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-21 – MARINE VESSEL WHARF

VII. Applicable Limits and Compliance Monitoring Requirements

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 # 1253, part IV, Section 3c	C	Hydrocarbon Concentration monitor
POC	BAAQMD 8-44.301.2	Y		Controlled ≥ 95% weight	BAAQMD Condition # 1253, part IV, Section 3c	C	Hydrocarbon Concentration monitor
POC	Subpart Y 40 CFR 63.562(c)(2)(iii)	Y		Vapor tight	40 CFR 63.563(a)(4)	P/A	Leak test
POC	Subpart Y 40 CFR 63.562(c)(3)	Y		RACT existing source, controlled ≥ 98% weight by combustion device	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 # 1253, part IV, Section 3c	C	Hydrocarbon Concentration monitor
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
POC	BAAQMD Condition # 1253 part IV, section 2	Y		95% controlled efficiency or 2 lb/ 1000 barrels of gasoline loaded	BAAQMD Condition # 1253, part IV, Section 2	P/startup	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-21 – MARINE VESSEL WHARF

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 # 1253 part IV, section 7	Y		Operating temperature ≥ 1400°F depend on source test result	BAAQMD Condition # 1253, part IV, Section 3c	C	Continuous temperature monitor
POC	BAAQMD Condition # 1253 part IV, section 9	Y		Loading pressure shall not exceed 80% of the lowest relief valve set pressure	None	None	Inspection
SO2	BAAQMD Regulation 9-1-303	Y		SO2 < 2000 ppm, or Sulfur < 3.34% by weight	BAAQMD Condition # 1253, part IIID, schedule F	P/Q	Analysis reports

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-23, S-24 – OILY WATER SEPARATORS

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 # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - G
Applicable Limits and Compliance Monitoring Requirements
S-27, AND S-28 - 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 # 1253, part IV, Section 3b	C	Continuous Temperature Monitor
POC	BAAQMD 8-5-328.2	Y		Tank cleaning ≥ 90% control, POC concentration < 10,000 ppm	None	None	None
POC	Subpart Ka 40 CFR 60.112(a)(a)(3)	Y		Controlled ≥ 95%	N	N	None
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
POC	BAAQMD Condition # 1253, part IIID	Y		1.44 pounds/1000 barrels	BAAQMD Condition # 1253, part IV, Section 3	C	Continuous Hydrocarbon monitor
NOx	BAAQMD Condition # 1253, part IB	Y		129.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - G
Applicable Limits and Compliance Monitoring Requirements
S-27, AND S-28 - 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
NOx	BAAQMD Condition # 1253, part IIID, schedule D	Y		9.68 lb/day plus 0.1744 pounds/1000 barrels	None	None	Source test
CO	BAAQMD Condition # 1253, part IB	Y		52.2 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
SO2	BAAQMD Condition # 1253, part IB	Y		83.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
PM	BAAQMD Condition # 1253, part IB	Y		25.8 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-73 – LOW PRESSURE STEAM BOILER

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Usage	BAAQMD Condition # 13720, part 1	Y		Natural gas < 90 M SCF/ 12 months	BAAQMD Condition # 13720, part 6	P/M	Flow meter
SO2	BAAQMD Regulation 9-1-301	Y		GLC > 0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes or 0.05 ppm averaged over 24 hrs	None	N	
SO2	SIP BAAQMD Regulation 9-1-302	Y		≤ 300 ppm SO2, dry	None	N	
SO2	SIP BAAQMD Regulation 9-1-304	Y		≤ 0.5% by weight, fuel sulfur concentration	BAAQMD Condition # 13720, part 7	P/E	Sulfur certification or analysis
SO2	BAAQMD Condition # 1253, part IB	Y		83.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
SO2	BAAQMD Condition # 1253, part IIID, schedule D	Y		78.5 lb/1000 gal of fuel oil burned	BAAQMD Condition # 13720, part 7	P/E	Sulfur certification or analysis
NOx	BAAQMD Regulation 9-7-301.1	N		30 ppmv dry, @ 3% O2	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-73 – LOW PRESSURE STEAM BOILER

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Regulation 9-7-305.1	N		150 ppmv dry, @ 3% O2	None	N	
NOx	BAAQMD Regulation 9-7-306.1	N		150 ppmv dry, @ 3% CO2	BAAQMD Condition # 13720, part 5	P/A	Source test
NOx	BAAQMD Condition # 1253, part IB	Y		129.5 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
NOx	BAAQMD Condition # 1253, part IIID, schedule D	Y		55 lb/1000 gal of fuel oil burned	BAAQMD Condition # 1253, part IIID	P/A	Records
NOx	BAAQMD Condition # 13720, Part 2	Y		20 ppmv @3% O2	BAAQMD Condition # 13720, part 5	P/A	Source test
NOx	BAAQMD Regulation 9-7-306.3	N		48 hours non-gaseous fuel testing	Regulation 9-7-503.3	P/M	Test records
CO	BAAQMD Regulation 9-7-301.2	N		400 ppmv dry, @ 3% CO2	BAAQMD Condition # 13720, part 5	P/A	Source test
CO	BAAQMD Regulation 9-7-305.2	N		400 ppmv dry, @ 3% CO2	None	N	
CO	BAAQMD Regulation 9-7-306.2	N		400 ppmv dry, @ 3% CO2	None	N	
CO	BAAQMD Regulation 9-7-306.3	N		48 hours non-gaseous fuel testing	Regulation 9-7-503.3	P/M	Test records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-73 – LOW PRESSURE STEAM BOILER

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 1253, part IB	Y		52.2 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
CO	BAAQMD Condition # 13720, part 3	Y		50 ppmv @ 3 % O2	BAAQMD Condition # 13720, part 5	P/A	Source test
POC	BAAQMD Condition # 1253, part 1B	Y		65.1 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records
POC	BAAQMD Condition # 1253, part IIID, schedule D	Y		0.28 lb/1000 gal of fuel oil burned	BAAQMD Condition # 1253, part IIID	P/A	Records
PM	BAAQMD Condition # 1253, part IB	Y		25.8 tpy for all sources	BAAQMD Condition # 1253, part IIID	P/A	Records

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 Regulation 8-18-301	Y		Equipment leaks ≤ 100 ppm, except for valves, pumps, compressors, connections and pressure relief devices	BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	BAAQMD Regulation 8-18-302	Y		Valves leaks ≤ 100 ppm	BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	BAAQMD Regulation 8-18-303	Y		Pump, compressor leaks ≤ 500 ppm	BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	BAAQMD Regulation 8-18-304	Y		Connection leaks ≤ 100 ppm	BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	BAAQMD Regulation 8-18-305	Y		Pressure relief valves ≤ 500 ppm	BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	BAAQMD Regulation 8-18-306.1	Y		Non-repairable be replaced within 5 years or at next scheduled turnaround	None	N	

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 Regulation 8-18-306.2	Y		Number awaiting repair < 0.5% valves, 1% pressure relief valves, 1% pump and compressor	None	N	
POC	BAAQMD Regulation 8-18-306.3.2	Y		Valves < 0.1 lb/day and number awaiting repair (NAR) < 1.0%; Pressure relief valves < 0.2 lb/day and (NAR) < 5%; Pumps, compressors < 0.2 lb/day and (NAR) < 5%;	None	N	
POC	SIP BAAQMD Regulation 8-18-301	Y		Until Jan. 1, 1993, valves and flanges ≤ 10,000 ppm, except for valves, pumps, compressors, connections and pressure relief devices	SIP BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-18-302	Y		Effective Jan. 1, 1993, valves ≤ 500 ppm; Effective Jan. 1, 1997, valves ≤ 100 ppm	SIP BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-18-303	Y		Effective Jan. 1, 1993, connectors ≤ 500 ppm; Effective Jan. 1, 1997, connectors ≤ 100 ppm	SIP BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records

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 Regulation 8-18-304	Y		Effective Jan. 1, 1993, non repairable valves ≤ 2%; Effective Jan. 1, 1995, non repairable valves ≤ 1 %; Effective Jan. 1, 1997, non repairable valves ≤ 0..5 %	SIP BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-18-305	Y		Effective Jan. 1, 1995 and until Jan. 1, 1997, valves ≤ 100 ppm for 4 consecutive quarters	SIP BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-18-306	Y		Effective Jan. 1, 1995 and until Jan. 1, 1997, repeat leakers ≤ 2 times in 12 months	SIP BAAQMD Regulation 8-18-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-25-301	Y		Until Jan. 1, 1993, pump, compressor ≤ 10,000 ppm	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-25-302	Y		Effective Jan. 1, 1993, pumps≤ 1000 ppm; Effective Jan. 1, 1997, pump ≤ 500 ppm	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records

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 Regulation 8-25-303	Y		Effective Jan. 1, 1993, compressors ≤ 1000 ppm; Effective Jan. 1, 1997, compressors ≤ 500 ppm	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-25-304.1	Y		Pumps and compressors repair or replaced within 5 years or at the next scheduled turnaround	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-25-304.2	Y		Effective Jan. 1, 1993, non repairable pumps and compressors ≤ 10%; Effective Jan. 1, 1997, non repairable pumps and compressors ≤ 1 %	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-18-305	Y		Effective Jan. 1, 1995, new replaced pumps and compressor ≤ 500 ppm for 4 consecutive quarters	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records
POC	SIP BAAQMD Regulation 8-25-306	Y		Effective Jan. 1, 1993, repeat leakers ≤ 2 times in 12 months	SIP BAAQMD Regulation 8-25-401	P/Q	Portable hydrocarbon detector, records

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	Subpart R 40 CFR 63.424(a)	Y		Vapor tight	40 CFR 63.563(a)(4)	P/A	Leak test

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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
SIP BAAQMD Regulation 8-25-301, 8-25-302, 8-25-303	Leak inspection procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-33-203	Analysis of samples	Manual of Procedures, Volume III, Method 13, Determination of the Reid Vapor Pressure of Petroleum Products
BAAQMD Regulation 8-33-301	Emission rate determination	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
BAAQMD Regulation 8-33-305	Vapor tight – delivery vehicles	Manual of Procedures, Volume IV, ST-33, Ethanol, Integrated Sampling
BAAQMD Regulation 8-33-309	Vapor recovery system – loading racks	Manual of Procedures, Volume IV, ST-34, Bulk Gasoline Distribution Facilities Edwards Refrigeration Unit or Carbon Adsorption Unit
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
BAAQMD Regulation 9-1-301	Ground level concentration	Manual of Procedures, Volume VI, Section 1 - Ground level monitoring for hydrogen sulfide and sulfur dioxide
BAAQMD Regulation 9-1-302	General emission limitation	Manual of Procedures, Volume IV, ST-19 A or B - Sulfur dioxide continuous sampling or sulfur oxides, integrated sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-1-303	Emissions from ships	Manual of Procedures, Volume III, Lab 10 – Determination of Sulfur in fuel oil
BAAQMD Regulation 9-7-301	Emission Limits –Gaseous fuel	Manual of Procedures, Volume IV, ST-13 A or B –Oxides of nitrogen, continuous sampling or oxides of nitrogen, integrated sampling; Volume IV, ST-6 – Carbon monoxides, continuous sampling and ST-14 – Oxygen, continuous sampling
BAAQMD Regulation 9-7-305	Natural Gas Curtailment – Non Gaseous Fuel	Manual of Procedures, Volume IV, ST-13 A or B –Oxides of nitrogen, continuous sampling or oxides of nitrogen, integrated sampling; Volume IV, ST-6 – Carbon monoxides, continuous sampling and ST-14 – Oxygen, continuous sampling
BAAQMD Regulation 9-7-306.1	Equipment testing – Non Gaseous Fuel NOx Performance Standard	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling or ST-13B, Oxides of Nitrogen, Iterated Sample and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 9-7-306.2	Equipment testing – Non Gaseous Fuel CO Performance Standard	Manual of Procedures, Volume IV, ST-6, Carbon Monoxides Continuous Sampling and ST-14, Oxygen, Continuous Sampling
Subpart Kb 40 CFR 60.112(b)	Vapor Pressure	ASTM Method D2879-83
Subpart Kb 40 CFR 60.112(b)(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, 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)

IX. 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
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

IX. Glossary

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.

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.)

IX. Glossary

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

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

IX. Glossary

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

X. APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments