

Bay Area Air Quality Management District

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

San Francisco, CA 941059

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

~~Final~~ Draft ~~Proposed~~ Renewal

MAJOR FACILITY REVIEW PERMIT

Issued To:

Valero Refining Company – California ~~NuStar Logistics, L.P.~~
Facility #**B5574**

Facility Address:

3400 East Second Street
Benicia, CA 94510-1097

Mailing Address:

3400 East Second Street
~~Benicia, CA 94510-1097~~ 2368 Maritime Drive, Suite 275 Elk Grove, CA 95758

Responsible Official

Donald C. Wilson ~~John Roller~~

Vice President/General Manager

~~–West Region~~

(707) 745-7990 ~~(916) 509-3255~~

Facility Contact

Iren Suhami ~~Michael Poirier~~

Senior Staff Environmental Engineer ~~Director HSE~~

(707) 745-7011 ~~(916) 509-3256~~

Type of Facility: Special Warehousing and Storage

Primary SIC: 4226

Product: Special Warehousing and Storage

BAAQMD Engineering Division Contact:

Thu Bui

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

~~Signed by Jaime A. Williams~~ Jeff McKay for Jack P. Broadbent

~~December 20, 2010~~

~~Jaime A. Williams, Director of Engineering~~ Jack P. Broadbent, Executive Officer/Air Pollution
Control Officer Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on ~~07/19/2006~~ 05/04/2011);

SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA on 06/28/1999);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on ~~07/19/2006~~ 12/6/17);

SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA on 8/1/2016 ~~01/26/1999~~);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on ~~06/15/2005~~ 12/6/17);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA on 8/1/2016 ~~01/26/1999~~);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on ~~12/21/2004~~ 12/19/2017);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA on ~~01/12/2017~~ 01/12/2017);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants
(as ~~amended~~ adopted by the District Board on ~~6/15/05~~ 12/7/2016);

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on ~~04/12/16/2003~~ 2017) And

SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA on 06/23/1995)

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

1. This Major Facility Review Permit was issued on December 20, 2010, and expires on December 19, 2015. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 19, 2015 and no earlier than December 19, 2014. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after December 19, 2010.** If the permit renewal has not been issued by December 19, 2010, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407 & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

I. Standard Conditions

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

I. Standard Conditions

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, ~~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 [June 30th or December 31st]. The report shall be submitted by [July 31st or January 31st]. Subsequent reports shall be for the following reporting periods: January 1st through June 30th and July 1st through December 31st, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent [by e-mail to compliance@baaqmd.gov](mailto:compliance@baaqmd.gov) or [by postal mail](#) to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
~~939 Ellis Street~~ [375 Beale Street, Suite 600](#)
San Francisco, CA [9410994105](#)
Attn: Title V Reports

(Regulation 2-6-409.18, 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 [date of issuance], to December 31st. Subsequent certification periods will be January 1st to December 31st. All compliance

I. Standard Conditions

certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. ~~The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms.~~ The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent [by e-mail to r9.aeo@epa.gov](mailto:r9.aeo@epa.gov) or [postal mail](#) to the Environmental Protection Agency at the following address:

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

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

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

H. Emergency Provisions

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

I. Severability

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

J. Miscellaneous Conditions

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

I. Standard Conditions

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

2. In Table II-A, for each source with a capacity identified as a grandfathered limit, all capacities as shown in Table II-A are based upon District records at the time of the MFR permit issuance. These throughput limits function as reporting thresholds only and exceedance of any of these limits does not constitute noncompliance with the MFR permit. As such, exceedance of a grandfathered limit is not subject to Section I.F reporting requirements. Exceedance of a grandfathered limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. The facility must report any exceedance of these limits in the form of a permit application within 30 days of discovery to facilitate the determination of whether a modification has occurred. The applications shall be sent to the following address: (Regulation 2-1-234.3)

Air Quality Engineering Manager
Bay Area Air Quality Management District
~~939 Ellis Street~~ [375 Beale Street, Suite 600](#)
San Francisco, CA ~~94109~~ [94105](#)
Attn: Permit Evaluation Section, Title V Reports

K. Accidental Release

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

II. EQUIPMENT

Table II A - Permitted Sources

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

| S-# | Description | Make or Type | Model | Capacity | Throughput |
|------|---|------------------------|-------|------------|--|
| S-1 | Crude Oil Storage Tank TK-4601A | External Floating Roof | N/A | 3,419 kgal | 6.235 MMBBL/year combined total for S-1, S-2, S-4 and S-23 (Condition # 21738, Part II.14) (New Source Review) |
| S-2 | Crude Oil Storage Tank TK-4601B | External Floating Roof | N/A | 3,419 kgal | 6.235 MMBBL/year combined total for S-1, S-2, S-4 and S-23 (Condition # 21738, Part II.14) (New Source Review) |
| S-4 | Crude Oil Storage Tank TK-4610A | External Floating Roof | N/A | 1,382 kgal | 6.235 MMBBL/year combined total for S-1, S-2, S-4 and S-23 (Condition # 21738, Part II.14) (New Source Review) |
| S-23 | Crude Oil Storage Tank TK-4610B | External Floating Roof | N/A | 1,382 kgal | 6.235 MMBBL/year combined total for S-1, S-2, S-4 and S-23 (Condition # 21738, Part II.14) (New Source Review) |
| S-57 | Crude Oil Storage Tank TK-1701 GOLD, Welded, Pontoon | External Floating Roof | N/A | 6300 kgal | 171.5 kbbbl/day [annual daily average] or 62.6 MMBBL/year [combined limit for Facility B5574 sources S-57 through S-62 and Facility B2626 sources S-1047, 1048] (Condition # 20820, part 32) (New Source Review) |
| S-58 | Crude Oil Storage Tank TK-1702 GOLD, Welded, Pontoon | External Floating Roof | N/A | 18900 kgal | 171.5 kbbbl/day [annual daily average] or 62.6 MMBBL/year [combined limit for Facility B5574 sources S-57 through S-62 and Facility B2626 sources S-1047, 1048] (Condition # 20820, part 32) (New Source Review) |
| S-59 | Crude Oil Storage Tank TK-1703 GOLD, Welded, Pontoon | External Floating Roof | N/A | 18900 kgal | 171.5 kbbbl/day [annual daily average] or 62.6 MMBBL/year [combined limit for Facility B5574 sources S-57 through S-62 and Facility B2626 sources S-1047, 1048] (Condition # 20820, part 32) (New Source Review) |

II. Equipment

Table II A - Permitted Sources

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

| S-# | Description | Make or Type | Model | Capacity | Throughput |
|------|---|------------------------|-------|------------|---|
| S-60 | Bunker C Fuel Oil and Crude Oil Storage Tank TK-1704 GOLD, Welded, Pontoon | External Floating Roof | N/A | 6300 kgal | 171.5 kbbbl/day [annual daily average] or 62.6 MMBBL/year [combined limit for Facility B5574 sources S-57 through S-62 and Facility B2626 sources S-1047, 1048] (Condition # 20820, part 32) (New Source Revi |
| S-61 | Crude Oil Storage Tank TK-1705 GOLD, Welded, Pontoon | External Floating Roof | N/A | 18900 kgal | 171.5 kbbbl/day [annual daily average] or 62.6 MMBBL/year [combined limit for Facility B5574 sources S-57 through S-62 and Facility B2626 sources S-1047, 1048] (Condition # 20820, part 32) |
| S-62 | Crude Oil Storage Tank TK-1706 GOLD, Welded, Pontoon | External Floating Roof | N/A | 18900 kgal | 171.5 kbbbl/day [annual daily average] or 62.6 MMBBL/year [combined limit for Facility B5574 sources S-57 through S-62 and Facility B2626 sources S-1047, 1048] (Condition #20820, part 32) |
| S-67 | Gas Oil/ Waste Oil Storage Tank TK-1715 GREEN, Welded, Pontoon | External Floating Roof | N/A | 9450 kgal | 8.03 MMBBL/year (based on 22.0 kBBL/day) (Grandfathered Source) |
| S-74 | Alkylate/Gasoline Storage Tank TK-1734 GREEN, Welded, Pontoon | External Floating Roof | N/A | 7980 kgal | 62.8 MMBBL/year [combined limit for Facility B5574 source S-74 and Facility B2626 sources S-63, 73, 75, 76, 78, 97 and 163] (based on combined total of 172.1 kBBL/day) (Grandfathered Source) |

II. Equipment

Table II B - Exempt Sources

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

| S-# | Description | Make or Type | Model | Capacity | Throughput |
|------|--|---------------------------|-------|-------------|--|
| S-68 | Gas Oil Storage Tank TK-1716 GREEN, Welded, Pontoon | External Floating Roof | N/A | 8820 kgal | Exempt, Initial Boiling Point > 302F Regulation 2-1-123.3.2 |
| S-70 | Resid Coker Feed Tank TK-1718 ALUMINUM | Vertical Fixed Roof | N/A | 5250 kgal | Exempt, Initial Boiling Point > 302F Regulation 2-1-123.3.2 |
| S-71 | Resid Coker Feed Tank TK-1719 ALUMINUM | Vertical Fixed Roof | N/A | 15,708 kgal | Exempt, Initial Boiling Point > 302F Regulation 2-1-123.3.2 |
| S-72 | Gas Oil Storage Tank TK-1720 GREEN, Welded, Pontoon | External Floating Roof | N/A | 15,204 kgal | Exempt, Initial Boiling Point > 302F Regulation 2-1-123.3.2 |

Table II C - Abatement Devices

| A-# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-----|--|----------------------|------------------------|----------------------|---------------------|
| 40 | Vapor Recovery Compressor Natural Gas Eductor on Coker Feed Tanks | 70, 71 | None (exempt tanks) | None | None |
| 41 | Vapor Recovery Compressor Natural Gas Eductor on Coker Feed Tanks | 70, 71 | None (exempt tanks) | None | None |

A-40/41 are shown here for thoroughness. Only S-70 and S-71 are part of facility B5574. A-40 and A-41 are owned by facility B2626, and also abate tanks in that facility.

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full language of SIP requirements is on EPA Region 9’s website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>

NOTE:

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

**Table III
 Generally Applicable Requirements
 (Not Requiring Routine Monitoring)**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|--------------------------------|---|-----------------------------|
| BAAQMD · Regulation 1 | General Provisions and Definitions (07/19/2006 05/04/2011) | N |
| SIP · Regulation 1 | General Provisions and Definitions (SIP Approved) (06/28/1999) | Y |
| BAAQMD · Regulation 2 · Rule 1 | Permits, General Requirements (07/19/2006 12/1906/20127) | N |
| SIP Regulation 2 · Rule 1 | Permits, General Requirements (SIP Approved) (01/26/1999 08/01/2016) | Y |
| 2-1-429 | Federal Emissions Statement | N |

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements
(Not Requiring Routine Monitoring)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|--|---|-----------------------------|
| BAAQMD · Regulation 2 · Rule 2 | Permits, New Source Review (06/15/2005 12/4906/2012 7) | N |
| SIP Regulation 2 · Rule 2 | Permits, New Source Review (01/26/1999 08/01/2016) | Y |
| BAAQMD · Regulation 2 · Rule 4 | Permits, Emissions Banking (12/21/2004 12/4906/2012)7) | N |
| SIP Regulation 2 · Rule 4 | Permits, Emissions Banking (01/12/2604/1999 2017) | Y |
| BAAQMD · Regulation 2 · Rule 5 | New Source Review of Toxic Air Contaminants (06/15/2005 01/06/2010)12/7/2016) | N |
| BAAQMD · Regulation 2 · Rule 6 | Permits, Major Facility Review (04/12/4606/2003 2017) | N |
| SIP Regulation 2 · Rule 6 | Permits, Major Facility Review (06/23/1995) | Y |
| BAAQMD · Regulation 2 · Rule 9 | Permits, Interchangeable Emission Reduction Credits (06/15/2005) | N |
| BAAQMD · Regulation 3 | Fees (06/6/2007 06/04/2014)06/21/2017) | N |
| SIP · Regulation 3 | Fees (05/03/1984) | Y |
| BAAQMD · Regulation 4 | Air Pollution Episode Plan (03/20/1991) | N |
| SIP Regulation 4 | Air Pollution Episode Plan (08/06/1990) | Y |
| BAAQMD · Regulation 5 | Open Burning (03/06/2002 06/19/2013) | N |
| SIP · Regulation 5 | Open Burning (09/04/1998) | Y |
| BAAQMD · Regulation 6 · Rule 1 | Particulate Matter, General Provisions(12/05/2007) | N |
| SIP · Regulation 6 · | Particulate Matter and Visible Emissions (09/04/1998) | Y |
| BAAQMD · Regulation 7 | Odorous Substances (03/17/1982) | N |
| BAAQMD · Regulation 8 · Rule 1 | Organic Compounds, General Provisions (06/15/1994) | Y |
| BAAQMD · Regulation 8 · Rule 2 | Organic Compounds, Miscellaneous Operations (07/20/2005) | N |
| SIP Regulation 8 · Rule 2 | Organic Compounds, Miscellaneous Operations (03/22/1995) | Y |
| BAAQMD Regulation 8 · Rule 3 | Organic Compounds - Architectural Coatings (11/21/2004 07/01/2009) | Y |
| SIP Regulation 8, Rule 3 | Organic Compounds - Architectural Coatings (01/02/2004) | Y |
| BAAQMD Regulation 8 · Rule 4 | Organic compounds - General Solvent and Surface Coating Operations (10/16/2002) | Y |
| BAAQMD · Regulation 8 · Rule 9 | Organic Compounds, Vacuum Producing Systems (07/20/1983) | Y |
| BAAQMD · Regulation 8 · Rule 28-302 | Pressure Relief Devices at New or Modified Sources at Petroleum Refineries (12/21/2005) | N |
| SIP Regulation 8 · Rule 28-302 | Pressure Relief Devices at New or Modified Sources at Petroleum Refineries (05/24/2004) | Y |
| BAAQMD · Regulation 8 · Rule 40 | Organic Compounds, Contaminated Soil and UST Removal (06/15/2005) | N |
| SIP Regulation 8 · Rule 40 | Organic Compounds, Contaminated Soil and UST Removal (04/19/2001) | Y |
| BAAQMD Regulation 8 · Rule 49 | Organic Compounds - Aerosol Paint Products | N |

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements
(Not Requiring Routine Monitoring)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|--|-----------------------------|
| | (12/20/1995) | |
| SIP Regulation 8 · Rule 49 | Organic Compounds - Aerosol Paint Products (03/22/1995) | Y |
| BAAQMD Regulation 8 · Rule 51 | Organic Compounds - Adhesive and Sealant Products (07/17/2002) | N |
| SIP - Regulation 8 · Rule 51 | Organic Compounds - Adhesive and Sealant Products (02/26/2002) | Y |
| BAAQMD · Regulation 11 · Rule 2 | Hazardous Pollutants, Asbestos Demolition and Renovation. (10/07/1998) | N |
| BAAQMD Regulation 11, Rule 18 | Reduction of Risk from Air Toxic Emissions at Existing Facilities (11/15/17) | <u>N</u> |
| BAAQMD Regulation 12 · Rule 4 | Miscellaneous Standards of Performance - Sandblasting (07/11/1990) | N |
| SIP Regulation 12 · Rule 4 | Miscellaneous Standards of Performance – Sandblasting (09/02/1981) | Y |
| BAAQMD Regulation 12, Rule 15 | Petroleum Refining Emissions Tracking (4/20/16) | <u>N</u> |
| NESHAPS Title 40 Part 61 Subpart M | NESHAPS, Asbestos (07/20/2004) | Y |
| Title 40 Part 68 | Chemical Accident Prevention Provisions (04/09/2004) | Y |
| Title 40 Part 82 Subpart F | CFC Recycling and Emissions Reduction (04/10/201504/13/2005) | Y |
| Title 40 Part 82 Subpart H | Prohibitions, Halon (03/05/1998) | Y |

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

**Table IV – General
 Generally Applicable Requirements
 which Require Routine Monitoring**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD · Regulation 1 | General Provisions and Definitions (07/19/2006/05/04/2011) | | |
| 1-510 | Area Monitoring | Y | |
| 1-530 | Area Monitoring Downtime | Y | |
| 1-540 | Area Monitoring Data Examination | Y | |
| 1-542 | Area Concentration Excesses | Y | |
| 1-543 | Record Maintenance for Two Years | Y | |
| 1-544 | Monthly Summary | Y | |
| BAAQMD Regulation 8, Rule 5 | Organic Compounds , Storage of Organic Liquids (10/18/2006) | | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| 8-5-118 | Limited Exemption, Gas Tight Requirement for approved emission control system in 8-5-306.2 does not apply if facility is subject to BAAQMD 8-18 | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program (Optional) | N | |
| 8-5-328 | Tank Degassing Requirements | N | |

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**Table IV – General
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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------------|---|-----------------------------|-----------------------|
| 8-5-328.1 | Tank Degassing Requirements: Tanks > 75 cubic meters: Use 90% abatement device | N | |
| 8-5-331 | Tank Cleaning Requirement, 90% Abatement Efficiency if abatement device used | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination, and Source Test Reports | N | |
| 8-5-411 | Enhanced Monitoring Program (Optional) | N | |
| 8-5-411.1 | Enhanced Monitoring Program (Optional); Notify BAAQMD of tanks selected for enhanced monitoring program | N | |
| 8-5-411.2 | Enhanced Monitoring Program (Optional); Criteria for operating enhanced monitoring program | N | |
| 8-5-501 | Records | N | |
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months | Y | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-501.4 | Records; New pressure vacuum valve setpoints | N | |
| 8-5-502 | Source Test Requirements and exemption for sources vented to fuel gas | N | |
| 8-5-502.2 | Source Test Requirements; Tank degassing and cleaning abatement devices | N | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure | Y | |
| 8-5-603 | Determination of Abatement Efficiency | N | |
| 8-5-604 | Determination of Applicability Based on True Vapor Pressure | Y | |
| SIP Regulation 8, Rule 5 | Storage of Organic Liquids (06/05/2003) | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-328.1 | Tank Degassing Requirements; Tanks > 75 cubic meters | Y | |
| 8-5-328.1.2 | Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System | Y | |
| 8-5-328.2 | Tank Degassing Requirements; Ozone Excess Day Prohibition | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank degassing annual source test requirement | Y | |
| 8-5-603 | Determination of emissions | Y | |
| 8-5-603.2 | Source tests for tank degassing equipment | Y | |
| BAAQMD · Regulation 9, Rule 2 | Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/06/1999) | | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 9-2-110 | Exemptions | N | |
| 9-2-301 | Limitations on Hydrogen Sulfide | N | |
| 9-2-501 | Area Monitoring Requirements | N | |
| 9-2-601 | Ground Level Monitoring | N | |
| BAAQMD · Regulation 10 · | Standards of Performance for New Sources incorporated by reference (02/16/2000) | | |
| 10-1 | Subpart A – General Provisions | Y | |
| BAAQMD · Regulation 11, Rule 12 | NESHAPS Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste Operations NESHAP (01/05/1994) | Y | |
| 40 CFR 60 Subpart A | General Provisions (06/30/2016/01/18/2008) | | |
| 60.1 | Applicability | Y | |
| 60.2 | Definitions | Y | |
| 60.3 | Units and Abbreviations | Y | |
| 60.4 | Address | Y | |
| 60.5 | Determination of Construction or Modification | Y | |
| 60.6 | Review of Plans | Y | |
| 60.7 | Notification and Recordkeeping | Y | |
| 60.8 | Performance Tests | Y | |
| 60.9 | Availability of Information | Y | |
| 60.11 | Compliance with Standards and Maintenance Requirements | Y | |
| 60.12 | Circumvention | Y | |
| 60.13 | Monitoring Requirements | Y | |
| 60.14 | Modification | Y | |
| 60.15 | Reconstruction | Y | |
| 60.17 | Incorporated by Reference | Y | |
| 60.19 | General Notification and Reporting Requirements | Y | |
| <u>NSPS Title 40 CFR Part 60 Subpart J</u> | <u>NSPS Subpart J for Petroleum Refineries (12/01/2015)</u> | | |
| <u>60.100(a)</u> | <u>Applicability: Fuel Gas Combustion Devices</u> | <u>Y</u> | |
| <u>60.100(b)</u> | <u>Applicability: Constructed/reconstructed after 6/11/1973 and before May 14, 2007 (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | <u>Y</u> | |
| <u>60.104</u> | <u>Standards for Sulfur Oxides</u> | <u>Y</u> | |
| <u>60.104(a)(1)</u> | <u>Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf)</u> | <u>Y</u> | |
| <u>60.105</u> | <u>Monitoring of Emissions and Operations</u> | <u>Y</u> | |
| <u>60.105(a)</u> | <u>Continuous Monitoring Systems Requirements</u> | <u>Y</u> | |
| <u>60.105(a)(4)</u> | <u>Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3)) (Compliance demonstration</u> | <u>Y</u> | |

IV. Source-Specific Applicable Requirements

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| | <u>through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | | |
| <u>60.105(e)</u> | <u>Determine and report periods of excess emissions.</u> | <u>Y</u> | |
| <u>60.105(e)(3)(ii)</u> | <u>Excess SO2 emission definitions for 60.7(c)</u> | <u>Y</u> | |
| <u>60.106(a)</u> | <u>Test Methods and Procedures</u> | <u>Y</u> | |
| <u>60.106(e)(1)</u> | <u>Methods to determine compliance with the H2S standard in 60.104(a)(1). (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | <u>Y</u> | |
| <u>60.107(f)</u> | <u>Semi-annual compliance report</u> | <u>Y</u> | |
| <u>60.107(g)</u> | <u>Certification of 60.107(f) report</u> | <u>Y</u> | |
| <u>NSPS Title 40 CFR Part 60 Subpart Ja</u> | <u>Standards of Performance for Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007 (07/13/2016)</u> | | |
| <u>60.100a</u> | <u>Applicability</u> | <u>Y</u> | |
| <u>60.100a(a)</u> | <u>Applicability: FCCUs, FCUs, delayed coking units, fuel gas combustion devices (including process heaters), flares, and sulfur recovery plants</u> | <u>Y</u> | |
| <u>60.100a(b)</u> | <u>Applicability: Fuel gas combustion devices which commenced construction, modification, or reconstruction after May 14, 2007 (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | <u>Y</u> | |
| <u>60.100a(c)</u> | <u>The provisions in 60.14 regarding modification apply</u> | <u>Y</u> | |
| <u>60.100a(d)</u> | <u>Definition of ‘fixed capital cost of the new components’ per 60.15</u> | <u>Y</u> | |
| <u>60.102a</u> | <u>Emissions Limitations</u> | <u>Y</u> | |
| <u>60.102a(a)</u> | <u>Comply with emission limitations on and after date of initial performance test, but no later than 60 days after achieving maximum production rate or 180 days after initial startup, whichever comes first</u> | <u>Y</u> | |
| <u>60.102a(g)</u> | <u>Comply with emission limitations in 60.102a(g)(1) and (2)</u> | <u>Y</u> | |
| <u>60.102a(g)(1)</u> | <u>Comply with either the emission limit in 60.102a(g)(1)(i) or the fuel gas concentration limit in 60.102a(g)(1)(ii)</u> | <u>Y</u> | |
| <u>60.102a(g)(1)(ii)</u> | <u>Fuel gas H2S concentration limited to 162 ppmv on a 3-hour rolling average basis and 60 ppmv determined daily on a 365-successive calendar day rolling average basis</u> | <u>Y</u> | |
| <u>60.104a</u> | <u>Performance Tests</u> | <u>Y</u> | |
| <u>60.104a(a)</u> | <u>Conduct a performance test for each fuel gas combustion device to demonstrate initial compliance. Notification requirements apply to the initial performance test and subsequent tests. (Compliance demonstration through EPA Region IX approved Alternative Monitoring Plans for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | <u>Y</u> | |
| <u>60.104a(c)</u> | <u>Conduct performance test using the test method in 40 CFR 60, Appendices A-1 through A-8 or other specified methods. (Compliance demonstration through EPA Region IX approved Alternative</u> | <u>Y</u> | |

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

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|-----------------------------|-----------------------|
| 60.108a(d)(1) | -- The date that the exceedance occurred; | <u>Y</u> | |
| 60.108a(d)(2) | -- An explanation of the exceedance; | <u>Y</u> | |
| 60.108a(d)(3) | -- Whether the exceedance was concurrent with a startup, shutdown, or malfunction of an affected facility or control system; and | <u>Y</u> | |
| 60.108a(d)(4) | -- A description of the action taken, if any. | <u>Y</u> | |
| 60.108a(d)(7) | Include a written statement, signed by a responsible official certifying the accuracy and completeness of the report. | <u>Y</u> | |
| 40 CFR 61 Subpart A | NESHAPS, General Provisions (04/21/2015^{05/16/2007}) | | |
| 61.01 | Lists of Pollutants and Applicability of Part 61 | Y | |
| 61.02 | Definitions | Y | |
| 61.03 | Units and abbreviations | Y | |
| 61.04 | Address | Y | |
| 61.05 | Prohibited Activities | Y | |
| 61.06 | Determination of Construction or Modification | Y | |
| 61.07 | Application for Approval of Construction or Modification | Y | |
| 61.08 | Approval of construction or modification | Y | |
| 61.09 | Notification of startup | Y | |
| 61.10 | Source reporting and waiver request | Y | |
| 61.12 | Compliance with Standards and Maintenance Requirements | Y | |
| 61.13 | Emission Tests and Waiver of Emission Tests | Y | |
| 61.14 | Monitoring requirements | Y | |
| 61.15 | Modification | Y | |
| 61.16 | Availability of Information | Y | |
| 61.17 | State Authority | Y | |
| 61.18 | Incorporation by reference | Y | |
| 61.19 | Circumvention | Y | |
| 40 CFR 61 Subpart FF | NESHAPS, Benzene Waste Operations (02/27/2014^{12/04/2003}) | | |
| 61.340(a) | Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries | Y | |
| 61.340(c) | Applicability: Exempt Waste | Y | |
| 61.340(d) | Exemption for gaseous streams vented to fuel gas system | Y | |
| 61.341 | Definitions | Y | |
| 61.342 | Standards: General | Y | |
| 61.342(a) | Standards: General; Requirements for calculating total annual benzene quantity (TAB) from facility waste | Y | |
| 61.342(b) | Standards: General; Compliance for facilities with TAB > 10Mg/year | Y | |
| 61.342(c)(1) | Requirements for treating non-aqueous wastes (less than 10% water) for compliance with 61.342(e) compliance option. | Y | |
| 61.342(c)(1)(iii) | Requirements for treating non-aqueous wastes (less than 10% water) | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | for compliance with 61.342(e) compliance option; Comply with 61.343 through 61.347 for waste management units used for wastes that will be recycled to the process or process feed tank. | | |
| 61.342(e) | Standards: General; Compliance option – Treat to 6 or 6BQ Option | Y | |
| 61.342(e)(1) | Requirements for treating non-aqueous wastes (less than 10% water) for compliance with 61.342(e) compliance option – comply with 61.342(c)(1) | Y | |
| 61.342(e)(2) | Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume. | Y | |
| 61.342(e)(2)(i) | Requirements for treating aqueous wastes (greater than 10% water) for compliance with 61.342(e) compliance option; | Y | |
| 61.342(e)(2)(ii) | Standards: General; Determine 61.342(e)(2) benzene quantity in each uncontrolled aqueous waste stream per 61.355(k) | Y | |
| 61.342(g) | Compliance determined by review of facility records, results of tests and inspections | Y | |
| 61.345(a) | Standards: Containers | Y | |
| 61.345(a)(1) | Standards: Containers--Covers | Y | |
| 61.345(a)(1)(ii) | Standards: Containers--Openings | Y | |
| 61.345(a)(2) | Standards: Containers--Waste Transfer | Y | |
| 61.345(b) | Standards: Containers--Quarterly inspection | Y | |
| 61.345(c) | Standards: Containers--Repairs | Y | |
| 61.350 | Delay of repair | Y | |
| 61.355 | Test Methods, Procedures, and Compliance Provisions | Y | |
| 61.355(a) | Determination of total annual benzene quantity (TAB) from facility waste (use procedure to determine target benzene quantity (TBQ) for aqueous wastes per 61.355(k)(1)) | Y | |
| 61.355(a)(1) | Requirements for determining annual benzene quantity for aqueous wastes (greater than 10% water) | Y | |
| 61.355(a)(2) | Calculation of total annual benzene quantity from facility waste | Y | |
| 61.355(a)(3) | Requirements if annual benzene quantity is greater than 11 ton/yr | Y | |
| 61.355(a)(6) | Benzene quantity from streams generated less than once per year | Y | |
| 61.355(b) | Determine annual waste quantity at point of generation, with allowable exceptions. Use specified methods | Y | |
| 61.355(b)(5) | Method to determine annual waste quantity – Option 1 – Historical records | Y | |
| 61.355(b)(6) | Method to determine annual waste quantity – Option 2 – Maximum design capacity | Y | |
| 61.355(b)(7) | Method to determine annual waste quantity – Option 3 – representative measurements of maximum waste generation rate | Y | |
| 61.355(c) | Determination of flow-weighted annual average benzene concentration | Y | |
| 61.355(c)(1) | Criteria for determination of flow-weighted annual average benzene concentration | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 61.355(c)(1)(i) | Determination made at point of waste generation | Y | |
| 61.355(c)(1)(ii) | Criteria for determination of flow-weighted annual average benzene concentration; Volatilization of benzene by exposure to air shall not be used in determination | Y | |
| 61.355(c)(1)(iii) | Criteria for determination of flow-weighted annual average benzene concentration; Mixing or diluting the waste stream shall not be used in determination | Y | |
| 61.355(c)(1)(v) | Criteria for determination of flow-weighted annual average benzene concentration; Determination for mixed-phase wastes | Y | |
| 61.355(c)(2) | Method for determination of benzene concentration: OPTION 1 Knowledge of the waste | Y | |
| 61.355(c)(3) | Method for determination of benzene concentration: OPTION 2 Measurements of benzene concentration | Y | |
| 61.355(k) | Determination of benzene quantity (TBQ) for 61.342(e)(2) | Y | |
| 61.355(k)(1) | Benzene quantity (TBQ) in waste streams not controlled for air emissions | Y | |
| 61.355(k)(2) | Benzene quantity (TBQ) in waste streams controlled for air emissions | Y | |
| 61.355(k)(3) | Benzene quantity (TBQ) in waste streams generated less than once per year | Y | |
| 61.355(k)(5) | Calculation of benzene quantity in waste streams controlled for air emissions | Y | |
| 61.355(k)(6) | Calculation of target benzene quantity (TBQ) | Y | |
| 61.355(k)(7) | Multiple counting of benzene quantity of a waste stream | Y | |
| 61.356 | Recordkeeping Requirements | Y | |
| 61.356(a) | Recordkeeping and retention requirements | Y | |
| 61.356(b) | Recordkeeping Requirements: Waste streams | Y | |
| 61.356(b)(1) | Recordkeeping Requirements: Uncontrolled waste streams | Y | |
| 61.356(b)(4) | Recordkeeping Requirements: Waste streams controlled per 61.342(e) | Y | |
| 61.357 | Reporting Requirements | Y | |
| 61.357(a)(1) | Annual report (61.357(d)(2)) contents: Reporting of total annual benzene quantity from facility waste | Y | |
| 61.357(a)(2) | Annual report (61.357(d)(2)) contents: Table identifying each waste stream and whether controlled | Y | |
| 61.357(a)(3) | Annual report (61.357(d)(2)) contents: Information for uncontrolled streams | Y | |
| 61.357(d) | Reporting Requirements: Facilities with TAB > 10 Mg/yr | Y | |
| 61.357(d)(2) | Reporting Requirements: Facilities with TAB > 10 Mg/yr; Annual report | Y | |
| 61.357(d)(5) | Reporting Requirements: Facilities with TAB > 10 Mg/yr; Annual report contents required | Y | |
| 61.357(d)(6) | Reporting Requirements: Facilities with TAB > 10 Mg/yr; Quarterly certification of inspections | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| 61.357(d)(7) | Reporting Requirements: Facilities with TAB > 10 Mg/yr; Quarterly report | Y | |
| 61.357(d)(8) | Reports of summary of all inspections | Y | |
| 61.357(e) | Notification Requirements for Floating roof tanks subject to 61.351 | Y | |
| 61.357(f) | Reporting Requirements for Floating roof tanks subject to 61.351 control equipment | Y | |
| 40 CFR 63 Subpart A | General Provisions of MACT Standards (12/04/201501/18/2008) | | |
| 63.1 | Applicability | Y | |
| 63.2 | Definitions | Y | |
| 63.3 | Units and Abbreviations | Y | |
| 63.4 | Prohibited Activities and Circumvention | Y | |
| 63.5 | Preconstruction Review and Notification Requirements | Y | |
| 63.6 | Compliance with Standards and Maintenance Requirements | Y | |
| 63.7 | Performance 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 Delegation | Y | |
| 63.13 | Addresses of EPA Regional Office | Y | |
| 63.14 | Incorporation by Reference | Y | |
| 63.15 | Availability of Information and Confidentiality | Y | |
| 63.16 | Performance Track Provisions | Y | |
| 40 CFR 63 Subpart B | National Emission Standards for Hazardous Air Pollutants for Source Categories: Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule (07/11/2005) | | |
| 63.52 | Approval process for new and existing affected sources. | Y | |
| 63.52(a) | Sources subject to section 112(j) as of the section 112(j) deadline | Y | |
| 63.52(a)(1) | Submit an application for Title V permit revision | Y | |
| 63.52(e) | Permit application review | Y | |
| 63.52(h) | Enhanced monitoring | Y | |
| 63.52(h)(i) | MACT emission limitations | Y | |
| 63.52(h)(i)(1) | Compliance with all requirements applicable to affected sources, including compliance date for affected sources | Y | |
| 63.53 | Application content for case-by-case MACT determination | Y | |
| 63.53(a) | Part 1 MACT application | Y | |
| 63.53(b) | Part 2 MACT application | Y | |
| 40 CFR 63 Subpart G | SOCMI HON G (06/23/2003 02/27/2014) Requirements for Storage Vessels Subject to 40 CFR 63 Subpart CC | | |
| 63.120(b) | Storage Vessel Provisions. Procedures to Determine Compliance— | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|-----------------------|
| | Compliance Demonstration-- External floating roof | | |
| 63.120(b)(1) | Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal gap measurement | Y | |
| 63.120(b)(1)(i) | Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals primary seal gap measurement | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR with double seals secondary seal gap | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions. Procedures to Determine Compliance— Compliance Demonstration-- External FR seal inspections prior to tank refill after service | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/201606/23/2003) | | |
| 63.640(a) | Applicability applies to petroleum refining process units and to related emission points at plant site | Y | |
| 63.640(c) | Applicability and Designation of Affected Source--Includes all emission points at plant site. | Y | |
| 63.640(d) | Applicability and Designation of Affected Source--Exclusions | Y | |
| 63.640(g) | Applicability and Designation of Affected Source--Exempt Processes | Y | |
| 63.640(h) | Applicability and Designation of Affected Source--Compliance dates | Y | |
| 63.640(h)(4) | Compliance date – Existing sources – exception for existing Group 1 storage vessels | Y | |
| 63.640(l) | Applicability and Designation of Affected Source--Additions of new equipment (i.e. process vents, storage vessels, etc) in Group 1 sources not subject to 63.640(i) or (j). | Y | |
| 63.640(m) | Applicability and Designation of Affected Source--Changes causing Group 2 emission points to become Group 1 points | Y | |
| 63.640(q) | For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart. | Y | |
| 63.641 | Definitions | Y | |
| 63.642 | General Standards | Y | |
| 63.642(a) | Apply for a part 70 or part 71 operating permit | Y | |
| 63.642(b) | The emission standards apply at all times | Y | |
| 63.642(c) | Table 6 of this subpart specifies the subpart A provisions that apply. | Y | |
| 63.642(d) | Initial performance tests and compliance determinations shall be required only as specified in this subpart | Y | |
| 63.642(e) | All applicable records shall be maintained as specified in 63.655(i) Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart. | Y | |

IV. Source-Specific Applicable Requirements

**Table IV – General
Generally Applicable Requirements
which Require Routine Monitoring**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| 63.642(f) | All reports required by this subpart shall be sent to the Administrator | Y | |
| 63.642(i) | Existing source owners/operators shall demonstrate compliance with (g) by following procedures in 63.642 (k) or by following emission averaging compliance approach in 63.642 (l) for specified emission points and the procedures in 63.642 (k) for other emission points. | Y | |
| 63.642(k) | Existing source owners/operators may comply, and new sources owners/operators shall comply with applicable provisions in 63.643 through 63.645 and 63.647 as specified in 63.640(h) and shall also comply with the applicable requirements of 63.648, 63.654, 63.655, and 63.658 Existing source owners/operators may comply, and new sources owners/operators shall comply with the storage vessel provisions in 63.646 and wastewater provisions in 63.647. Sources using 63.642(k) approach must comply with 63.654 and are exempt from 63.642(g) | Y | |
| 63.642(n) | At all times, operate and maintain any source, air pollution, and monitoring equipment in a manner consistent with safety and good air pollution control practices | Y | |
| 63.647 | Wastewater Provisions | Y | |
| 63.647(a) | Wastewater Provisions: Comply with 40 CFR 61 Subpart FF for Group 1 wastewater streams | Y | |
| 63.647(b) | Wastewater Provisions: Definitions | Y | |
| 63.647(ed) | Wastewater Provisions: Requirements for operating in accordance with 40 CFR 61 Subpart FF | Y | |
| 63.65 5 4 | Reporting and Recordkeeping Requirements | Y | |
| 63.65 5 4(a) | Reporting and Recordkeeping Requirements; wastewater provisions | Y | |
| 63.65 5 4(e) | Reporting Requirements | Y | |
| 63.65 5 4(f) | Reporting Requirements; Notice of Compliance Status | Y | |
| 63.65 5 4(f)(1)(i) | Reporting Requirements; Notice of Compliance Status; storage vessel information | Y | |
| 63.65 5 4(f)(6) | Reporting Requirements; Notice of Compliance Status; information for new equipment (required by 63.640(l)(3)) | Y | |
| 63.65 5 4(g) | Reporting Requirements: Semiannual periodic reports | Y | |
| 63.65 5 4(h) | Reporting Requirements--Other reports | Y | |
| 63.65 5 4(i) | Recordkeeping Requirements | Y | |
| 63.65 5 4(i)(4)(6 5) l | Recordkeeping Requirements; record retention | Y | |
| Appendix Table 1 | Hazardous Air Pollutants | Y | |
| Appendix Table 6 | General Provisions Applicability to Subpart CC | Y | |
| 40 CFR Part 98 | Mandatory Greenhouse Gas Reporting | Y | |
| Subpart A | General Provisions | Y | |

IV. Source-Specific Applicable Requirements

**Table IV – General
 Generally Applicable Requirements
 which Require Routine Monitoring**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| Subpart C | General Stationary Fuel Combustion Sources | Y | |
| Subpart Y | Petroleum Refineries | Y | |
| Subpart MM | Suppliers of Petroleum Products | Y | |
| BAAQMD Condition #20762 | | | |
| Part 1 | Verify true vapor pressure (8-5-117) | Y | |
| Part 2 | Comply with Regulation 8-5 when switching different service (Regulation 8, Rule 5) | Y | |
| Part 3 | Recordkeeping (8-5-117) | Y | |

**Table IV - A
 Source-specific Applicable Requirements
 NSPS Subpart Kb External Floating Roof Tanks
 S-1, S-2, S-4, S-23 (TK-4601A,
 TK-4601B, TK-4610A, TK-4610B)
 - BAP Crude Storage Tanks**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification | N | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period | N | |
| 8-5-112 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation | N | |
| 8-5-112.1 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification | Y | |
| 8-5-112.2 | Limited Exemption, Preventative Maintenance and Inspection of Tanks | N | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | in Operation; Tank in compliance at time of notification | | |
| 8-5-112.3 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days | N | |
| 8-5-112.5 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption | N | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program Tanks (Optional) | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fittings | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal (8-5-321) | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal (8-5-322) | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof | N | |
| 8-5-304.5 | Requirements for External Floating Roofs; Tank shell | N | |
| 8-5-304.6 | Requirements for External Floating Roofs; Pontoons – no leaks | N | |
| 8-5-304.6.1 | Requirements for External Floating Roofs; Pontoons – make gas tight if leaking | N | |
| 8-5-304.6.2 | Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |
| 8-5-320.2 | Floating Roof Tank Fitting Requirements; Projection below liquid surface | N | |
| 8-5-320.3 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids | N | |
| 8-5-320.3.1 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- | Y | |
| 8-5-320.4.1 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface | Y | |
| 8-5-320.4.2 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid | Y | |
| 8-5-320.4.3 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap | Y | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| 8-5-320.5 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells | N | |
| 8-5-320.5.1 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface | Y | |
| 8-5-320.5.2 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells | N | |
| 8-5-320.5.3 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap | Y | |
| 8-5-321 | Primary Seal Requirements | N | |
| 8-5-321.1 | Primary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-321.2 | Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3 | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | N | |
| 8-5-321.3.1 | Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe | Y | |
| 8-5-321.3.2 | Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks | Y | |
| 8-5-322 | Secondary Seal Requirements | N | |
| 8-5-322.1 | Secondary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-322.2 | Secondary Seal Requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | Y | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-331 | Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination, and Source Test Reports | N | |
| 8-5-411 | Enhanced Monitoring Program (Optional) | N | |
| 8-5-411.3 | Enhanced Monitoring Program (Optional); Performance requirements | N | |
| 8-5-412 | Monitoring of Leaking Pontoons | N | |
| 8-5-501 | Records | N | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | Y | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-502 | Source Test Requirements | N | |
| 8-5-502.2 | Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331 | N | |
| 8-5-601 | Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602 | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1 | Y | |
| 8-5-603 | Determination of Abatement Efficiency: for abatement device used to comply with the requirements of 8-5-328.1 or 331 | N | |
| 8-5-604 | Determination of Applicability Based on True Vapor Pressure: for organic compounds listed in Table 1 | Y | |
| 8-5-605 | Measurement of Leak Concentration and Residual Concentrations | N | |
| 8-5-605.1 | Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument | N | |
| 8-5-605.2 | Measurement of Leak Concentration and Residual Concentrations; Test Methods | N | |
| 8-5-606 | Analysis of Samples, Tank Cleaning Agents | N | |
| 8-5-606.1 | Analysis of Samples, Tank Cleaning Agents; IBP | N | |
| 8-5-606.2 | Analysis of Samples, Tank Cleaning Agents; TVP | N | |
| 8-5-606.3 | Analysis of Samples, Tank Cleaning Agents; VOC | N | |
| SIP Regulation 8, Rule 5 | Storage of Organic Liquids (06/05/2003) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions | Y | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required | Y | |
| 8-5-111.7 | Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328 | Y | |
| 8-5-112 | Limited Exemption, Tanks in Operation | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404 | Y | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|--|-----------------------------|-----------------------|
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirement | Y | |
| 8-5-320 | Tank fitting requirements | Y | |
| 8-5-320.2 | Tank fitting requirements; Projection below liquid surface | Y | |
| 8-5-320.3 | Tank fitting requirements; Gasketed covers, seals, lids | Y | |
| 8-5-320.4 | Tank fitting requirements; Solid sampling or gauging wells and similar fixed projections | Y | |
| 8-5-320.5 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.5.2 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.3 | Primary seal requirements; Metallic shoe type seals requirements | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-328 | Tank degassing requirements | Y | |
| 8-5-328.1 | Tank degassing requirements; Tanks larger than 75 m ³ | Y | |
| 8-5-328.1.2 | Tank degassing requirements; Tanks larger than 75 m ³ ; Concentration of organic compounds in tank of < 10,000 ppm as methane after degassing | Y | |
| 8-5-328.2 | Tank degassing requirements; Ozone excess day prohibition | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | Y | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| BAAQMD Regulation 10 | Standards of Performance for New Stationary Sources incorporated by reference (02/16/2000) | | |
| 10-17 | Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels | Y | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|---|-----------------------------|-----------------------|
| 40 CFR 60 Subpart Kb | Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (10/15/2003) Requirements for External Floating Roof Tanks | | |
| 60.110b(a) | Applicability and designation of affected facility > or = to 75 cubic meter, after 7/23/1984 | Y | |
| 60.112b(a) | Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cubic meter with maximum TVP >=5.2 kPa and <76.6; or >= 75 cubic meter and < 151 cubic meter with maximum TVP >= 27.6 kPa and < 76.6 kPa | Y | |
| 60.112b(a)(2) | Standard for Volatile Organic Compounds (VOC); External floating roof option | Y | |
| 60.112b(a)(2)(i) | Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements | Y | |
| 60.112b(a)(2)(i)(A) | Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements | Y | |
| 60.112b(a)(2)(i)(B) | Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements | Y | |
| 60.112b(a)(2)(ii) | Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements | Y | |
| 60.112b(a)(2)(iii) | Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements | Y | |
| 60.113b(b)(1) | Testing and Procedures; External floating roof seal gap measurement frequency | Y | |
| 60.113b(b)(1)(i) | Measurement of gaps between tank wall and primary seal | Y | |
| 60.113b(b)(1)(ii) | Measurement of gaps between tank wall and secondary seal | Y | |
| 60.113b(b)(1)(iii) | Testing and Procedures; External floating roof reintroduction of VOL | Y | |
| 60.113b(b)(2) | Testing and Procedures; External floating roof seal gap measurement procedures | Y | |
| 60.113b(b)(2)(i) | Testing and Procedures; External floating roof measure seal gaps when roof is floating | Y | |
| 60.113b(b)(2)(ii) | Testing and Procedures; External floating roof measure seal gaps around entire circumference | Y | |
| 60.113b(b)(2)(iii) | Testing and Procedures; External floating roof seal method to determine surface area of seal gaps | Y | |
| 60.113b(b)(3) | Testing and Procedures; External floating roof method to calculate total | Y | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| | surface area ratio | | |
| 60.113b(b)(4) | Testing and Procedures; External floating roof seal gap repair requirements | Y | |
| 60.113b(b)(4)(i) | Testing and Procedures; External floating roof primary seal gap limitations | Y | |
| 60.113b(b)(4)(i)(A) | Testing and Procedures; External floating roof mechanical shoe primary seal requirements | Y | |
| 60.113b(b)(4)(i)(B) | Testing and Procedures; External floating roof primary seals no holes, tears, openings | Y | |
| 60.113b(b)(4)(ii)(A) | Testing and Procedures; External floating roof secondary seal installation | Y | |
| 60.113b(b)(4)(ii)(B) | Testing and Procedures; External floating roof secondary seal gap limitations | Y | |
| 60.113b(b)(4)(ii)(C) | Testing and Procedures; External floating roof secondary seals no holes, tears, openings | Y | |
| 60.113b(b)(4)(iii) | Testing and Procedures; External floating roof 30-day extension request for seal gap repairs | Y | |
| 60.113b(b)(5) | Testing and Procedures; External floating roof seal gap inspections 30 day notification | Y | |
| 60.113b(b)(6) | Testing and Procedures; External floating roof visual inspection when emptied and degassed | Y | |
| 60.113b(b)(6)(i) | Testing and Procedures; External floating roof--roof or seal defect repairs | Y | |
| 60.113b(b)(6)(ii) | Testing and Procedures; External floating roof notification prior to filling | Y | |
| 60.115b | Reporting and Recordkeeping Requirements; 60.112b(a) tanks | Y | |
| 60.115b(b) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof | Y | |
| 60.115b(b)(1) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification | Y | |
| 60.115b(b)(2) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report | Y | |
| 60.115b(b)(2)(i) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement | Y | |
| 60.115b(b)(2)(ii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data | Y | |
| 60.115b(b)(2)(iii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations | Y | |
| 60.115b(b)(3) | Reporting and Recordkeeping Requirements; 60.112b(a) external | Y | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|--|-----------------------------|-----------------------|
| | floating roof seal gap measurement records | | |
| 60.115b(b)(3)(i) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement | Y | |
| 60.115b(b)(3)(ii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data | Y | |
| 60.115b(b)(3)(iii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations | Y | |
| 60.115b(b)(4) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report | Y | |
| 60.116b(a) | Monitoring of Operations; Record retention | Y | |
| 60.116b(b) | Monitoring of Operations; Permanent record requirements | Y | |
| 60.116b(c) | Monitoring of Operations; VOL storage record requirements | Y | |
| 60.116b(e) | Determination of vapor pressure for crude oil or refined petroleum products | Y | |
| 60.116b(e)(1) | Monitoring of Operations; Determine TVP-temperature selection based on tank operating temperatures | Y | |
| 60.116b(e)(2)(i) | use of API nomographs to determine true vapor pressure | Y | |
| 60.116b(e)(2)(ii) | determination of true vapor pressure under special circumstances | Y | |
| 40 CFR 63 Subpart CC | National Emission Standards for Hazardous Pollutants for Petroleum Refining (07/13/201606/23/2003) Requirements for External Floating Roof Tanks Subject to 40 CFR 60 Subpart Kb | | |
| 63.640(c)(2) | Affected sources: Tanks | Y | |
| 63.640(n)(2) | Applicability and Designation of Affected Source Overlap for Storage Vessels—Existing Group 1 or Group 2 also subject to Kb only subject to Kb and 63.640(n)(8). | Y | |
| 63.640(n)(8) | Overlap for storage vessels subject to 40 CFR 63 Subpart CC and 40 CFR 60 Subpart Kb | Y | |
| 63.640(n)(8)(i) | Exemption from secondary seal requirements during gap measurements for primary seal | Y | |
| 63.640(n)(8)(ii) | Structurally unsound roofs | Y | |
| 63.640(n)(8)(iii) | Extensions for compliance | Y | |
| 63.640(n)(8)(iv) | Additional reports if extension is used | Y | |
| 63.640(n)(8)(v) | Subpart Kb reports may be submitted for this subpart. Permit holder has 60 days in lieu of Subpart Kb deadline. | Y | |
| 63.640(n)(8) | Subpart Kb rim seal inspection reports not required if gaps do not | Y | |

IV. Source-Specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
NSPS Subpart Kb External Floating Roof Tanks
S-1, S-2, S-4, S-23 (TK-4601A,
TK-4601B, TK-4610A, TK-4610B)
- BAP Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------------|---|-----------------------------|-----------------------|
| (vi) | exceed limitations. | | |
| 63.640(n)(8) (vii) | Guidepoles to be equipped with covers and/or controls to comply with the “no visible gap” requirement | <u>Y</u> | |
| BAAQMD Condition #21738 | | | |
| Part I.14 | NMHC Limits for S1, S2, S4, S23 (Cumulative Increase) | Y | |
| Part I.18 | Cumulative Increase Monitoring (Cumulative Increase) | Y | |
| Part I.18a | NMHC estimates (Cumulative Increase) | Y | |
| Part I.18c | Estimates of NMHC emissions from S1, S2, S4, S23 (Cumulative Increase) | Y | |
| Part I.18j | Summary of emissions estimates and reports of non-compliance (Cumulative Increase) | Y | |
| Part II.12 | Specifications for External Floating Roof Tanks (Cumulative Increase, Offsets) | Y | |
| Part II.13 | Quarterly Seal and Fitting Inspections (Cumulative Increase) | Y | |
| Part II.14 | Throughput Limit (Cumulative Increase) | Y | |
| Part II.15 | Storage of Materials Other than Crude Oil (Cumulative Increase, Toxics) | Y | |
| Part II.16 | Vapor Pressure Limit (Cumulative Increase, Offsets, Toxics) | Y | |
| Part II.22 | Daily Recordkeeping (Cumulative Increase) | Y | |
| Part II.23 | Monthly Recordkeeping (Cumulative Increase) | Y | |
| Part II.24 | Crude Oil Transfers by pipeline only (Cumulative Increase) | Y | |

Table IV - B
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, | Y | |

IV. Source-Specific Applicable Requirements

Table IV - B
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | Notification | | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification | N | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period | N | |
| 8-5-112 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation | N | |
| 8-5-112.1 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification | Y | |
| 8-5-112.2 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification | N | |
| 8-5-112.3 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days | N | |
| 8-5-112.5 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption | N | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program Tanks (Optional) | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fittings | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal (8-5-321) | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal (8-5-322) | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof | N | |
| 8-5-304.5 | Requirements for External Floating Roofs; Tank shell | N | |
| 8-5-304.6 | Requirements for External Floating Roofs; Pontoons – no leaks | N | |
| 8-5-304.6.1 | Requirements for External Floating Roofs; Pontoons – make gas tight if leaking | N | |
| 8-5-304.6.2 | Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |

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Table IV - B
Source-Specific Applicable Requirements
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S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 8-5-320.2 | Floating Roof Tank Fitting Requirements; Projection below liquid surface | N | |
| 8-5-320.3 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids | N | |
| 8-5-320.3.1 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.5 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells | N | |
| 8-5-320.5.1 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface | Y | |
| 8-5-320.5.2 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells | N | |
| 8-5-320.5.3 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap | Y | |
| 8-5-321 | Primary Seal Requirements | N | |
| 8-5-321.1 | Primary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-321.2 | Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3 | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | N | |
| 8-5-321.3.1 | Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe | Y | |
| 8-5-321.3.2 | Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks | Y | |
| 8-5-321.4 | Primary Seal Requirements; Resilient-toroid-type seal gap requirements | N | |
| 8-5-322 | Secondary Seal Requirements | N | |
| 8-5-322.1 | Secondary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-322.2 | Secondary Seal Requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | Y | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-331 | Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | N | |

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Table IV - B
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|--|-----------------------------|-----------------------|
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination, and Source Test Reports | N | |
| 8-5-411 | Enhanced Monitoring Program (Optional) | N | |
| 8-5-411.3 | Enhanced Monitoring Program (Optional); Performance requirements | N | |
| 8-5-412 | Monitoring of Leaking Pontoons | N | |
| 8-5-501 | Records | N | |
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | Y | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-502 | Source Test Requirements | N | |
| 8-5-502.2 | Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331 | N | |
| 8-5-601 | Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602 | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1 | Y | |
| 8-5-603 | Determination of Abatement Efficiency: for abatement device used to comply with the requirements of 8-5-238.1 or 331 | N | |
| 8-5-604 | Determination of Applicability Based on True Vapor Pressure: for organic compounds listed in Table 1 | Y | |
| 8-5-605 | Measurement of Leak Concentration and Residual Concentrations | N | |
| 8-5-605.1 | Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument | N | |
| 8-5-605.2 | Measurement of Leak Concentration and Residual Concentrations; Test Methods | N | |
| 8-5-606 | Analysis of Samples, Tank Cleaning Agents | N | |
| 8-5-606.1 | Analysis of Samples, Tank Cleaning Agents; IBP | N | |
| 8-5-606.2 | Analysis of Samples, Tank Cleaning Agents; TVP | N | |
| 8-5-606.3 | Analysis of Samples, Tank Cleaning Agents; VOC | N | |
| SIP · Regulation 8 · Rule 5 | Storage of Organic Liquids (06/05/2003) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification | Y | |
| | | | |

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Table IV - B
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service, Minimize emissions | Y | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required | Y | |
| 8-5-111.7 | Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 | Y | |
| 8-5-112 | Limited Exemption, Tanks in Operation | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | Y | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | Y | |
| 8-5-320 | Tank Fitting Requirements; Floating roof tanks | Y | |
| 8-5-320.2 | Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface | Y | |
| 8-5-320.3 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids | Y | |
| 8-5-320.5 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.5.2 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | Y | |
| 8-5-321.4 | Primary Seal Requirements; Resilient-toroid-type seal requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-328.1 | Tank Degassing Requirements; Tanks > 75 cubic meters | Y | |
| 8-5-328.1.2 | Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 ppm as methane after degassing. | Y | |
| 8-5-328.2 | Tank Degassing Requirements; Ozone Excess Day Prohibition | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | Y | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | Y | |
| 8-5-404 | Certification | Y | |

IV. Source-Specific Applicable Requirements

Table IV - B
Source-Specific Applicable Requirements
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S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|--|-----------------------------|-----------------------|
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 40 CFR 63, Subpart G | SOCMI HON G (06/23/2003 <u>02/27/2014</u>) Requirements for MACT Group 1 External Floating Roof Tanks | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063.</u> | | | |
| 63.119(a) | Storage Vessel Provisions -- Reference Control Technology | Y | |
| 63.119(a)(1) | Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa | Y | |
| 63.119(c) | Storage Vessel Provisions . Reference Control Technology-- External floating roof | Y | |
| 63.119(c)(1) | Storage Vessel Provisions . Reference Control Technology-- External floating roof seals | Y | |
| 63.119(c)(1)(i) | Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required | Y | |
| 63.119(c)(1)(ii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements | Y | |
| 63.119(c)(1)(iii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements | Y | |
| 63.119(c)(3) | Storage Vessel Provisions . Reference Control Technology-- External floating roof--(roof must float on liquid) | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions . Reference Control Technology-- External floating roof exception | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof exception | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof exception | Y | |
| 63.119(c)(4) | Storage Vessel Provisions . Reference Control Technology-- External Floating Roof Operations, when not floating | Y | |
| 63.120(b) | Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof | Y | |
| 63.120(b)(1) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement | Y | |
| 63.120(b)(1)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after | Y | |

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Table IV - B
Source-Specific Applicable Requirements
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S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | service | | |
| 63.120(b)(2) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(3) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method | Y | |
| 63.120(b)(4) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method | Y | |
| 63.120(b)(5) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes | Y | |
| 63.120(b)(6) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements | Y | |
| 63.120(b)(6)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes | Y | |
| 63.120(b)(7) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs | Y | |
| 63.120(b)(9) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification | Y | |
| 63.120(b)(10) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied | Y | |
| 63.120(b)(10)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification | Y | |

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**Table IV - B
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-57, S-58 (TK-1701, TK-1702)
Refinery Crude Storage Tanks**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 63.120(b)(10)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2 | Y | |
| 63.123(d) | Storage Vessel Provisions . Recordkeeping--Group 1 External floating | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/2016/06/23/2003) Requirements for Group 1 External Floating Roof Tanks | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u> | | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| <u>63.646</u> | <u>Upon a demonstration of compliance with the standards in 63.660 by the compliance dates specified in 63.640(h), the standards in this section shall no longer apply</u> | <u>Y</u> | |
| 63.646(a) | Storage Vessel Provisions--Group 1 | Y | |
| 63.646(b)(1) | Storage Vessel Provisions--Determine stored liquid % OHAP for group determination | Y | |
| 63.646(b)(2) | Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes | Y | |
| 63.646(c) | Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels | Y | |
| 63.646(d)(2) | Storage Vessel Provisions--References to April 22,1994 | Y | |
| 63.646(d)(3) | Storage Vessel Provisions--References to December 31, 1992 | Y | |
| 63.646(d)(4) | Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F | Y | |
| 63.646(e) | Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G | Y | |
| 63.646(f) | Storage Vessel Provisions--Group 1 floating roof requirements | Y | |
| 63.646(f)(1) | Storage Vessel Provisions--Group 1 floating roof requirements--Cover or lid | Y | |
| 63.646(f)(2) | Storage Vessel Provisions--Group 1 floating roof requirements--Rim space | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements--Automatic bleeder vents | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| 63.646(g) | Storage Vessel Provisions – Group 1 floating roof requirements— Failures to Inspect and Monitor | Y | |
| 63.646(l) | Storage Vessel Provisions--State or local permitting agency notification requirements,. | Y | |
| 63.655(e) | Required Reports | <u>Y</u> | |
| 63.6554(f) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements | Y | |
| 63.6554(f)(1)(i)(A) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels | Y | |
| 63.6554(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels | Y | |
| 63.6554(g)(1) | Periodic Reporting and Recordkeeping Requirements--storage vessels | Y | |
| 63.6554(g)(3) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(i)(A) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(i)(B) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(i)(C) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(i)(D) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.655(g)(3)(ii)(A) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(g)(3)(iii)(B) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(h)(2) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. <u>NOTE: notification requirement has been waived by BAAQMD per 63.655(h)(2)(ii)</u> | Y | |

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Source-Specific Applicable Requirements
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Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements—Other reports—Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i)(A) | Reporting and Recordkeeping Requirements—Other reports—Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i)(B) | Reporting and Recordkeeping Requirements—Other reports—Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i)(C) | Reporting and Recordkeeping Requirements—Other reports—Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements—Other reports—Storage vessel notification of inspections. | Y | |
| 63.654(h)(6) | Reporting and Recordkeeping Requirements—Other reports—Determination of Applicability | Y | |
| 63.654(h)(6)(ii) | Reporting and Recordkeeping Requirements—Other reports—Determination of Applicability | Y | |
| 63.654(i)(1) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.655(i)(1)(ii) | Reporting and Recordkeeping Requirements – Recordkeeping for storage vessels – comply with 63.655(e) instead of 63.122 | Y | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements—Records for tank when in MACT Group 2 service | Y | |
| 63.655(i)(1)(v) | Reporting and Recordkeeping Requirements—Recordkeeping for storage vessels - Group 1 storage vessels | Y | |
| 63.654(i)(5 46) | Reporting and Recordkeeping Requirements—Record retention | Y | |
| 63.660 | Storage vessel provisions. Group 1 storage vessels shall comply with the requirements in 40 CFR 63, Subpart WW according to the requirements of 63.660(a) through (i) | Y | |
| 63.660(a) | Determination of stored liquid HAP content | Y | |
| 63.660(b) | Floating Roof Storage Vessel Requirements | Y | |
| 63.660(c) | References | Y | |
| 63.660(e) | Violations | Y | |
| 63.660(g) | Notification of Compliance Status | Y | |
| 63.660(h) | Periodic Reporting | Y | |
| BAAQMD Condition # 22333 | Applicable to S-57 only | | |
| Part 1 | Tank 1701 (S-57) shall not be heated while storing "light" crude | Y | |

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Source-Specific Applicable Requirements
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Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | oil. [Basis: Cumulative Increase] | | |
| Part 2 | The maximum vapor pressure of material stored in TK1701 shall not exceed 3.5 psi. [Basis: Cumulative Increase] | Y | |

Table IV - C
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|--|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification | N | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks | N | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period | N | |
| 8-5-112 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation | N | |
| 8-5-112.1 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification | Y | |
| 8-5-112.2 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification | N | |
| 8-5-112.3 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days | N | |

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Table IV - C
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 8-5-112.5 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption | N | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program Tanks (Optional) | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fittings | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal (8-5-321) | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal (8-5-322) | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof | N | |
| 8-5-304.5 | Requirements for External Floating Roofs; Tank shell | N | |
| 8-5-304.6 | Requirements for External Floating Roofs; Pontoons – no leaks | N | |
| 8-5-304.6.1 | Requirements for External Floating Roofs; Pontoons – make gas tight if leaking | N | |
| 8-5-304.6.2 | Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |
| 8-5-320.2 | Floating Roof Tank Fitting Requirements; Projection below liquid surface | N | |
| 8-5-320.3 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids | N | |
| 8-5-320.3.1 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.5 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells | N | |
| 8-5-320.5.1 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface | Y | |
| 8-5-320.5.2 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells | N | |
| 8-5-320.5.3 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap | Y | |
| 8-5-321 | Primary Seal Requirements | N | |
| 8-5-321.1 | Primary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-321.2 | Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3 | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | N | |

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Table IV - C
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|--|-----------------------------|-----------------------|
| 8-5-321.3.1 | Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe | Y | |
| 8-5-321.3.2 | Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks | Y | |
| 8-5-322 | Secondary Seal Requirements | N | |
| 8-5-322.1 | Secondary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-322.2 | Secondary Seal Requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | Y | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-331 | Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination, and Source Test Reports | N | |
| 8-5-411 | Enhanced Monitoring Program (Optional) | N | |
| 8-5-411.3 | Enhanced Monitoring Program (Optional); Performance requirements | N | |
| 8-5-412 | Monitoring of Leaking Pontoons | N | |
| 8-5-501 | Records | N | |
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | Y | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-502 | Source Test Requirements | N | |
| 8-5-502.2 | Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331 | N | |
| 8-5-601 | Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602 | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1 | Y | |
| 8-5-603 | Determination of Abatement Efficiency: for abatement device used | N | |

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Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| | to comply with the requirements of 8-5-328.1 or 331 | | |
| 8-5-604 | Determination of Applicability Based on True Vapor Pressure: for organic compounds listed in Table 1 | Y | |
| 8-5-605 | Measurement of Leak Concentration and Residual Concentrations | N | |
| 8-5-605.1 | Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument | N | |
| 8-5-605.2 | Measurement of Leak Concentration and Residual Concentrations; Test Methods | N | |
| 8-5-606 | Analysis of Samples, Tank Cleaning Agents | N | |
| 8-5-606.1 | Analysis of Samples, Tank Cleaning Agents; IBP | N | |
| 8-5-606.2 | Analysis of Samples, Tank Cleaning Agents; TVP | N | |
| 8-5-606.3 | Analysis of Samples, Tank Cleaning Agents; VOC | N | |
| SIP · Regulation 8 Rule 5 | Storage of Organic Liquids (06/05/2003) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification | Y | |
| | | | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service, Minimize emissions | Y | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required | Y | |
| 8-5-111.7 | Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 | Y | |
| 8-5-112 | Limited Exemption, Tanks in Operation | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | Y | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | Y | |
| 8-5-320 | Tank Fitting Requirements; Floating roof tanks | Y | |
| 8-5-320.2 | Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface | Y | |
| 8-5-320.3 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids | Y | |
| 8-5-320.5 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks | Y | |

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Table IV - C
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 8-5-320.5.2 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-328.1 | Tank Degassing Requirements; Tanks > 75 cubic meters | Y | |
| 8-5-328.1.2 | Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing | Y | |
| 8-5-328.2 | Tank Degassing Requirements; Ozone Excess Day Prohibition | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | Y | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records – Retain 10 years | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 40 CFR 63 Subpart G | SOCMI HON G (06/23/2003 02/27/2014) Requirements for MACT Group 1 External Floating Roof Tanks | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u> | | | |
| 63.119(a) | Storage Vessel Provisions -- Reference Control Technology | Y | |
| 63.119(a)(1) | Storage Vessel Provisions -- Reference Control Technology-- Group 1, TVP < 76.6 kPa | Y | |
| 63.119(c) | Storage Vessel Provisions . Reference Control Technology-- External floating roof | Y | |
| 63.119(c)(1) | Storage Vessel Provisions . Reference Control Technology-- External floating roof seals | Y | |
| 63.119(c)(1)(i) | Storage Vessel Provisions . Reference Control Technology-- External floating roof double seals required | Y | |
| 63.119(c)(1)(ii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof primary seal requirements | Y | |
| 63.119(c)(1)(iii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof seal requirements | Y | |
| 63.119(c)(3) | Storage Vessel Provisions . Reference Control Technology-- | Y | |

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Table IV - C
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | External floating roof--(roof must float on liquid) | | |
| 63.119(c)(3)(i) | Storage Vessel Provisions . Reference Control Technology-- External floating roof exception | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof exception | Y | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions . Reference Control Technology-- External floating roof exception | Y | |
| 63.119(c)(4) | Storage Vessel Provisions . Reference Control Technology-- External Floating Roof Operations, when not floating | Y | |
| 63.120(b) | Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof | Y | |
| 63.120(b)(1) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement | Y | |
| 63.120(b)(1)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service | Y | |
| 63.120(b)(2) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(3) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method | Y | |
| 63.120(b)(4) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method | Y | |
| 63.120(b)(5) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes | Y | |
| 63.120(b)(6) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements | Y | |
| 63.120(b)(6)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes | Y | |
| 63.120(b)(7) | Storage Vessel Provisions . Procedures to Determine | Y | |

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Table IV - C
Source-Specific Applicable Requirements
MACT Group 1 External Floating Roof Tanks
S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| | Compliance--External FR unsafe to perform seal measurements | | |
| 63.120(b)(7)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs | Y | |
| 63.120(b)(9) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification | Y | |
| 63.120(b)(10) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied | Y | |
| 63.120(b)(10)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2 | Y | |
| 63.123(d) | Storage Vessel Provisions . Recordkeeping--Group 1 External floating | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/2016/23/2003) Requirements for Group 1 External Floating Roof Tanks | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u> | | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| <u>63.646</u> | <u>Upon a demonstration of compliance with the standards in 63.660 by the compliance dates specified in 63.640(h), the standards in this section shall no longer apply</u> | <u>Y</u> | |
| 63.646(a) | Storage Vessel Provisions--Group 1 | Y | |
| 63.646(b)(1) | Storage Vessel Provisions--Determine stored liquid % OHAP for group determination | Y | |
| 63.646(b)(2) | Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes | Y | |
| 63.646(c) | Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels | Y | |
| 63.646(d)(2) | Storage Vessel Provisions--References to April 22,1994 | Y | |
| 63.646(d)(3) | Storage Vessel Provisions--References to December 31, 1992 | Y | |
| 63.646(d)(4) | Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F | Y | |

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Source-Specific Applicable Requirements
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S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| 63.646(e) | Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G | Y | |
| 63.646(f) | Storage Vessel Provisions--Group 1 floating roof requirements | Y | |
| 63.646(f)(1) | Storage Vessel Provisions--Group 1 floating roof requirements--Cover or lid | Y | |
| 63.646(f)(2) | Storage Vessel Provisions--Group 1 floating roof requirements--Rim space | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements--Automatic bleeder vents | Y | |
| 63.646(g) | Storage Vessel Provisions – Group 1 floating roof requirements – Failures to Inspect and Monitor | Y | |
| 63.646(l) | Storage Vessel Provisions--State or local permitting agency notification requirements,. | Y | |
| 63.655(e) | Required Reports | Y | |
| 63.655(f) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements | Y | |
| 63.65 5 4(f)(1)(i)(A) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels | Y | |
| 63.65 5 4(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements--Notice of compliance status elements--Reporting--storage vessels | Y | |
| 63.65 5 4(g)(1) | Periodic Reporting and Recordkeeping Requirements--storage vessels | Y | |
| 63.65 5 4(g)(3) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(i)(A) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(i)(B) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(i)(C) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(i)(D) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.655(g)(3)(iii)(A) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 5 4(g)(3)(iii)(B) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |

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Table IV - C
Source-Specific Applicable Requirements
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S-59, S-60, S-61, S-62 (TK-1703, TK-1704, TK-1705, TK-1706)
Refinery Crude Storage Tanks

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|-----------------------------|-----------------------|
| 63.6554(h)(2) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. <u>NOTE: notification requirement has been waived by BAAQMD per 63.655(h)(2)(ii)</u> | Y | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i)(A) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i)(B) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i)(C) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(6) | Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability | Y | |
| 63.654(h)(6)(ii) | Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability | Y | |
| 63.6554(i)(1) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.6554(i)(1)(i) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.655(i)(1)(ii) | <u>Reporting and Recordkeeping Requirements – Recordkeeping for storage vessels – comply with 63.655(e) instead of 63.122</u> | <u>Y</u> | |
| 63.6554(i)(1)(iv) | <u>Reporting and Recordkeeping Requirements – Records for tank when in MACT Group 2 service</u> | <u>Y</u> | |
| 63.655(i)(1)(v) | <u>Reporting and Recordkeeping Requirements – Recordkeeping for storage vessels – Group 1 storage vessels</u> | <u>Y</u> | |
| 63.6554(i)(54) | Reporting and Recordkeeping Requirements—Record retention | Y | |
| 63.660 | Storage vessel provisions. <u>Group 1 storage vessels shall comply with the requirements in 40 CFR 63, Subpart WW according to the requirements of 63.660(a) through (i)</u> | <u>Y</u> | |
| 63.660(a) | <u>Determination of stored liquid HAP content</u> | <u>Y</u> | |
| 63.660(b) | <u>Floating Roof Storage Vessel Requirements</u> | <u>Y</u> | |
| 63.660(c) | <u>References</u> | <u>Y</u> | |
| 63.660(e) | <u>Violations</u> | <u>Y</u> | |
| 63.660(g) | <u>Notification of Compliance Status</u> | <u>Y</u> | |
| 63.660(h) | <u>Periodic Reporting</u> | <u>Y</u> | |

IV. Source-Specific Applicable Requirements

Table IV - D
Source-Specific Applicable Requirements
MACT GROUP 2 EXTERNAL FLOATING ROOF TANKS
S-68 , S-72 (TK-1716, TK-1720)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) Exempt | | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| SIP · Regulation 8 Rule 5 | Storage of Organic Liquids (06/05/2003) Exempt | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/201606/23/2003) Requirements For Group II Storage Vessels | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u> | | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.641 | Definitions | Y | |
| 63.646(b)(1) | Storage Vessel Provisions--Determine stored liquid % OHAP for group determination | Y | |
| 63.646(b)(2) | Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes | Y | |
| 63.654(h)(6) | Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability | Y | |
| 63.654(h)(6)(ii) | Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability | Y | |
| 63.654(i)(1) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.654(i)(1)(i) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.654(i)(1)(iv) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| <u>63.655(i)(1)(vi)</u> | <u>Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels</u> | <u>Y</u> | |
| 63.654(i)(546) | Reporting and Recordkeeping Requirements—Record retention | Y | |
| BAAQMD Condition # 20762 | | | |
| Part 1 | Verify true vapor pressure (8-5-117) | Y | |
| Part 2 | Comply with Regulation 8-5 when switching different service (Regulation 8, Rule 5) | Y | |
| Part 3 | Recordkeeping (8-5-117) | Y | |

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Table IV - E
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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification | N | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period | N | |
| 8-5-112 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation | N | |
| 8-5-112.1 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification | Y | |
| 8-5-112.2 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification | N | |
| 8-5-112.3 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days | N | |
| 8-5-112.5 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during exemption period | N | |
| 8-5-112.6 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption | N | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program Tanks (Optional) | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fittings | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal (8-5-321) | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal (8-5-322) | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof | N | |
| 8-5-304.5 | Requirements for External Floating Roofs; Tank shell | N | |
| 8-5-304.6 | Requirements for External Floating Roofs; Pontoons – no leaks | N | |
| 8-5-304.6.1 | Requirements for External Floating Roofs; Pontoons – make gas tight if leaking | N | |
| 8-5-304.6.2 | Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |
| 8-5-320.2 | Floating Roof Tank Fitting Requirements; Projection below liquid surface | N | |
| 8-5-320.3 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids | N | |
| 8-5-320.3.1 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- | Y | |
| 8-5-320.4.1 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface | Y | |
| 8-5-320.4.2 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid | Y | |
| 8-5-320.4.3 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap | Y | |
| 8-5-320.5 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells | N | |
| 8-5-320.5.1 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface | Y | |
| 8-5-320.5.2 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells | N | |
| 8-5-320.5.3 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap | Y | |
| 8-5-321 | Primary Seal Requirements | N | |
| 8-5-321.1 | Primary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-321.2 | Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3 | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | N | |
| 8-5-321.3.1 | Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe | Y | |
| 8-5-321.3.2 | Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks | Y | |
| 8-5-322 | Secondary Seal Requirements | N | |
| 8-5-322.1 | Secondary Seal Requirements; No holes, tears, other openings | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|--|-----------------------------|-----------------------|
| 8-5-322.2 | Secondary Seal Requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | Y | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-331 | Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination, and Source Test Reports | N | |
| 8-5-411 | Enhanced Monitoring Program (Optional) | N | |
| 8-5-411.3 | Enhanced Monitoring Program (Optional); Performance requirements | N | |
| 8-5-412 | Monitoring of Leaking Pontoons | N | |
| 8-5-501 | Records | N | |
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | Y | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-502 | Source Test Requirements | N | |
| 8-5-502.2 | Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331 | N | |
| 8-5-601 | Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602 | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1 | Y | |
| 8-5-603 | Determination of Abatement Efficiency: for abatement device used to comply with the requirements of 8-5-328.1 or 331 | N | |
| 8-5-604 | Determination of Applicability Based on True Vapor Pressure: for organic compounds listed in Table 1 | Y | |
| 8-5-605 | Measurement of Leak Concentration and Residual Concentrations | N | |
| 8-5-605.1 | Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument | N | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|---|-----------------------------|-----------------------|
| 8-5-605.2 | Measurement of Leak Concentration and Residual Concentrations; Test Methods | N | |
| 8-5-606 | Analysis of Samples, Tank Cleaning Agents | N | |
| 8-5-606.1 | Analysis of Samples, Tank Cleaning Agents; IBP | N | |
| 8-5-606.2 | Analysis of Samples, Tank Cleaning Agents; TVP | N | |
| 8-5-606.3 | Analysis of Samples, Tank Cleaning Agents; VOC | N | |
| SIP • Regulation 8 Rule 5 | Storage of Organic Liquids (06/05/2003) | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service, Minimize emissions | Y | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required | Y | |
| 8-5-111.7 | Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328 | Y | |
| 8-5-112 | Limited Exemption, Tanks in Operation | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404 | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation, Not to exceed 7 days | Y | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | Y | |
| 8-5-320 | Tank Fitting Requirements; Floating roof tanks | Y | |
| 8-5-320.2 | Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface | Y | |
| 8-5-320.3 | Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids | Y | |
| 8-5-320.5 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.5.2 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper | Y | |
| 8-5-321 | Primary Seal Requirements | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | Y | |
| 8-5-322 | Secondary Seal Requirements | Y | |
| 8-5-328 | Tank Degassing Requirements | Y | |
| 8-5-328.1 | Tank Degassing Requirements; Tanks > 75 cubic meters | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 8-5-328.1.2 | Tank Degassing Requirements; Tanks > 75 cubic meters, Concentration of <10,000 pm as methane after degassing. | Y | |
| 8-5-328.2 | Tank Degassing Requirements; Ozone Excess Day Prohibition | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | Y | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information Required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| 40 CFR 63 Subpart G | SOCMI HON G (12/21/2006 02/27/2014) Requirements For External Floating Roof Tanks Subject to 40 CFR 63 Subpart CC | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u> | | | |
| 63.119(a) | Storage Vessel Provisions -- Reference Control Technology | Y | |
| 63.119(a)(1) | Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa | Y | |
| 63.119(c) | Storage Vessel Provisions . Reference Control Technology--External floating roof | Y | |
| 63.119(c)(1) | Storage Vessel Provisions . Reference Control Technology--External floating roof seals | Y | |
| 63.119(c)(1)(i) | Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required | Y | |
| 63.119(c)(1)(ii) | Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements | Y | |
| 63.119(c)(1)(iii) | Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements | Y | |
| 63.119(c)(3) | Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid) | Y | |
| 63.119(c)(3)(i) | Storage Vessel Provisions . Reference Control Technology--External floating roof exception | Y | |
| 63.119(c)(3)(ii) | Storage Vessel Provisions . Reference Control Technology--External | Y | |

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Source-Specific Applicable Requirements
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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| | floating roof exception | | |
| 63.119(c)(3)(iii) | Storage Vessel Provisions . Reference Control Technology--External floating roof exception | Y | |
| 63.119(c)(4) | Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating | Y | |
| 63.120(b) | Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof | Y | |
| 63.120(b)(1) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement | Y | |
| 63.120(b)(1)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement | Y | |
| 63.120(b)(1)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap | Y | |
| 63.120(b)(1)(iv) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service | Y | |
| 63.120(b)(2) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(2)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods | Y | |
| 63.120(b)(3) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method | Y | |
| 63.120(b)(4) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method | Y | |
| 63.120(b)(5) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements | Y | |
| 63.120(b)(5)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe | Y | |
| 63.120(b)(5)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes | Y | |
| 63.120(b)(6) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements | Y | |
| 63.120(b)(6)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location | Y | |
| 63.120(b)(6)(ii) | Storage Vessel Provisions . Procedures to Determine | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| | Compliance--External FR secondary seal, no holes | | |
| 63.120(b)(7) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(7)(i) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(7)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements | Y | |
| 63.120(b)(8) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs | Y | |
| 63.120(b)(9) | Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification | Y | |
| 63.120(b)(10) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied | Y | |
| 63.120(b)(10)(i) | Storage Vessel Provisions . Procedures to Determine Compliance-- External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e)] | Y | |
| 63.120(b)(10)(ii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification | Y | |
| 63.120(b)(10)(iii) | Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned | Y | |
| 63.123(a) | Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2 | Y | |
| 63.123(d) | Storage Vessel Provisions . Recordkeeping--Group 1 External floating | Y | |
| 63.123(g) | Storage Vessel Provisions -- Recordkeeping, Extensions | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/201606/23/2003) Requirements for Group 1 External Floating Roof Tanks | | |
| <u>The tanks in this table will be subject to the provisions of 40 CFR 63.646 and the referenced requirements of 40 CFR 63, Subpart G until compliance with 40 CFR 63.660 and the referenced requirements contained in 40 CFR 63, Subpart WW is demonstrated, as specified in 40 CFR 63.640(h), 63.660, and 63.1063</u> | | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| <u>63.646</u> | <u>Upon a demonstration of compliance with the standards in 63.660 by the compliance dates specified in 63.640(h), the standards in this section shall no longer apply</u> | <u>Y</u> | |
| 63.646(a) | Storage Vessel Provisions--Group 1 | Y | |
| 63.646(b)(1) | Storage Vessel Provisions--Determine stored liquid % OHAP for | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|---|-----------------------------|-----------------------|
| | group determination | | |
| 63.646(b)(2) | Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes | Y | |
| 63.646(c) | Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels | Y | |
| 63.646(d)(2) | Storage Vessel Provisions--References to April 22,1994 | Y | |
| 63.646(d)(3) | Storage Vessel Provisions--References to December 31, 1992 | Y | |
| 63.646(d)(4) | Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F | Y | |
| 63.646(e) | Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G | Y | |
| 63.646(f) | Storage Vessel Provisions--Group 1 floating roof requirements | Y | |
| 63.646(f)(1) | Storage Vessel Provisions--Group 1 floating roof requirements--Cover or lid | Y | |
| 63.646(f)(2) | Storage Vessel Provisions--Group 1 floating roof requirements--Rim space | Y | |
| 63.646(f)(3) | Storage Vessel Provisions-Group 1 floating roof requirements--Automatic bleeder vents | Y | |
| <u>63.646(g)</u> | <u>Storage Vessel Provisions – Group 1 floating roof requirements— Failures to Inspect and Monitor</u> | <u>Y</u> | |
| 63.646(l) | Storage Vessel Provisions--State or local permitting agency notification requirements,. | Y | |
| <u>63.655(e)</u> | <u>Required Reports</u> | <u>Y</u> | |
| 63.65 <u>5</u> 4(f) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements | Y | |
| 63.65 <u>5</u> 4(f)(1)(i)(A) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels | Y | |
| 63.65 <u>5</u> 4(f)(1)(i)(A)(1) | Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels | Y | |
| 63.65 <u>5</u> 4(g)(1) | Periodic Reporting and Recordkeeping Requirements--storage vessels | Y | |
| 63.65 <u>5</u> 4(g)(3) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 <u>5</u> 4(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 <u>5</u> 4(g)(3)(i)(A) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 <u>5</u> 4(g)(3)(i)(B) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.65 <u>5</u> 4(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements--storage vessels | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------|---|-----------------------------|-----------------------|
| (C) | with external floating roofs | | |
| 63.6554(g)(3)(i) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| (D) | with external floating roofs | | |
| 63.6554(g)(3)(ii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| () | | | |
| 63.6554(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| () | | | |
| 63.655(g)(3)(iii) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| (A) | | | |
| 63.6554(g)(3)(iii)(B) | Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs | Y | |
| 63.6554(h)(2) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. <u>NOTE: notification requirement has been waived by BAAQMD per 63.655(h)(2)(ii)</u> | Y | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| (A) | | | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| (B) | | | |
| 63.654(h)(2)(i) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| (C) | | | |
| 63.654(h)(2)(ii) | Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections. | Y | |
| 63.654(h)(6) | Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability | Y | |
| 63.654(h)(6)(ii) | Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability | Y | |
| 63.6554(i)(1) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.6554(i)(1)(i) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels | Y | |
| 63.655(i)(1)(ii) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels--comply with 63.655(e) instead of 63.122 | Y | |
| 63.6554(i)(1)(iv) | Reporting and Recordkeeping Requirements--Records for tank when in MACT Group 2 service | Y | |
| () | | | |
| 63.655(i)(1)(v) | Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels--Group 1 storage vessels | | |
| 63.6554(i)(546) | Reporting and Recordkeeping Requirements--Record retention | Y | |

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| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------|--|-----------------------------|-----------------------|
| 63.660 | Storage vessel provisions. Group 1 storage vessels shall comply with the requirements in 40 CFR 63, Subpart WW according to the requirements of 63.660(a) through (i). | Y | |
| 63.660(a) | Determination of stored liquid HAP content | Y | |
| 63.660(b) | Floating Roof Storage Vessel Requirements | Y | |
| 63.660(c) | References | Y | |
| 63.660(e) | Violations | Y | |
| 63.660(g) | Notification of Compliance Status | Y | |
| 63.660(h) | Periodic Reporting | Y | |

Table IV - F
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks with Vapor Recovery to Fuel Gas
S-70, S-71 (TK-1718, TK-1719)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|---|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) Exempt | | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| SIP · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (06/05/2003) Exempt | | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/201606/23/2003) Exempt – Emissions vented to fuel gas | | |
| 63.640(c)(2) | Applicability and Designation of Storage Vessels | Y | |
| 63.640(d)(5) | Exclusion for emission points routed to fuel gas system | Y | |
| BAAQMD Condition # 20762 | | | |
| Part 1 | Verify true vapor pressure (8-5-117) | Y | |
| Part 2 | Comply with Regulation 8-5 when switching different service | Y | |

IV. Source-Specific Applicable Requirements

Table IV - F
Source-Specific Applicable Requirements
Exempt Fixed Roof Tanks with Vapor Recovery to Fuel Gas
S-70, S-71 (TK-1718, TK-1719)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| | (Regulation 8, Rule 5) | | |
| Part 3 | Recordkeeping (8-5-117) | Y | |

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| BAAQMD · Regulation 8 Rule 5 | Organic Compounds, Storage of Organic Liquids (10/18/2006) Requirements for External Floating Roof Tanks | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | N | |
| 8-5-111.1 | Limited Exemption, Tank Removal From and Return to Service, Notification | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Tank in compliance at time of notification | N | |
| 8-5-111.3 | Limited Exemption, Tank Removal From and Return to Service; Filling, emptying, refilling floating roof tanks | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimize emissions and, if required, degas per 8-5-328 | N | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Self report if out of compliance during exemption period | N | |
| 8-5-112 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation | N | |
| 8-5-112.1 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Notification | Y | |
| 8-5-112.2 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Tank in compliance at time of notification | N | |
| 8-5-112.3 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; No product movement, Minimize emissions | Y | |
| 8-5-112.4 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Not to exceed 7 days | N | |
| 8-5-112.5 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Self report if out of compliance during | N | |

IV. Source-Specific Applicable Requirements

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| | exemption period | | |
| 8-5-112.6 | Limited Exemption, Preventative Maintenance and Inspection of Tanks in Operation; Keep records for each exemption | N | |
| 8-5-117 | Limited Exemption, Low Vapor Pressure | N | |
| 8-5-119 | Limited Exemption, Repair Period for Enhanced Monitoring Program Tanks (Optional) | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-304 | Requirements for External Floating Roof Tanks | N | |
| 8-5-304.1 | Requirements for External Floating Roofs; Tank fittings | Y | |
| 8-5-304.2 | Requirements for External Floating Roofs; Primary seal (8-5-321) | Y | |
| 8-5-304.3 | Requirements for External Floating Roofs; Secondary seal (8-5-322) | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof | N | |
| 8-5-304.5 | Requirements for External Floating Roofs; Tank shell | N | |
| 8-5-304.6 | Requirements for External Floating Roofs; Pontoons – no leaks | N | |
| 8-5-304.6.1 | Requirements for External Floating Roofs; Pontoons – make gas tight if leaking | N | |
| 8-5-304.6.2 | Requirements for External Floating Roofs; Pontoons-repair all leaks at next removal from service | N | |
| 8-5-320 | Floating Roof Tank Fitting Requirements | N | |
| 8-5-320.2 | Floating Roof Tank Fitting Requirements; Projection below liquid surface | N | |
| 8-5-320.3 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids | N | |
| 8-5-320.3.1 | Floating Roof Tank Fitting Requirements; Gasketed covers, seals, lids - Gap requirements | Y | |
| 8-5-320.4 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- | Y | |
| 8-5-320.4.1 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--projection below liquid surface | Y | |
| 8-5-320.4.2 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells--cover, seal, or lid | Y | |
| 8-5-320.4.3 | Floating Roof Tank Fitting Requirements; Solid sampling or gauging wells-- total secondary seal gap must include well gap | Y | |
| 8-5-320.5 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells | N | |
| 8-5-320.5.1 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells -projection below liquid surface | Y | |
| 8-5-320.5.2 | Floating Roof Tank Fitting Requirements; Slotted sampling or | N | |

IV. Source-Specific Applicable Requirements

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| | gauging wells -cover, gasket, pole sleeve, pole wiper for EFR wells | | |
| 8-5-320.5.3 | Floating Roof Tank Fitting Requirements; Slotted sampling or gauging wells-total secondary seal gap must include well gap | Y | |
| 8-5-321 | Primary Seal Requirements | N | |
| 8-5-321.1 | Primary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-321.2 | Primary Seal Requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3 | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | N | |
| 8-5-321.3.1 | Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe | Y | |
| 8-5-321.3.2 | Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks | Y | |
| 8-5-321.4 | Primary Seal Requirements; Resilient-toroid-type seal gap requirements | N | |
| 8-5-322 | Secondary Seal Requirements | N | |
| 8-5-322.1 | Secondary Seal Requirements; No holes, tears, other openings | Y | |
| 8-5-322.2 | Secondary Seal Requirements; Insertion of probes | Y | |
| 8-5-322.5 | Secondary Seal Requirements; Gap requirements for welded external floating roof tanks with seals installed after 9/4/1985 | Y | |
| 8-5-322.6 | Secondary Seal Requirements; Extent of seal | Y | |
| 8-5-328 | Tank Degassing Requirements | N | |
| 8-5-331 | Tank Cleaning Requirements, 90% Abatement Efficiency if abatement device used | N | |
| 8-5-332 | Sludge Handling Requirements (applies to sludge removed from any tank that was subject to BAAQMD 8-5 at any time since it was last put in service) | N | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | N | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | N | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | N | |
| 8-5-404 | Inspection, Abatement Efficiency Determination, and Source Test Reports | N | |
| 8-5-411 | Enhanced Monitoring Program (Optional) | N | |
| 8-5-411.3 | Enhanced Monitoring Program (Optional); Performance requirements | N | |
| 8-5-412 | Monitoring of Leaking Pontoons | N | |
| 8-5-501 | Records | N | |
| 8-5-501.1 | Records; Type and amounts of liquid, type of blanket gas, TVP- Retain 24 months | Y | |

IV. Source-Specific Applicable Requirements

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------------|--|------------------------------------|------------------------------|
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks, Seal Replacement Records- Retain 10 years | Y | |
| 8-5-501.3 | Records; Retention | N | |
| 8-5-502 | Source Test Requirements | N | |
| 8-5-502.2 | Source Test Requirements for abatement device used to comply with 8-5-328.1 or 331 | N | |
| 8-5-601 | Analysis of Samples, Reid Vapor Pressure: for organic compounds not listed in Table 1, use 8-5-601 or 8-5-602 | Y | |
| 8-5-602 | Analysis of Samples, True Vapor Pressure: for organic compounds not listed in Table 1 | Y | |
| 8-5-603 | Determination of Abatement Efficiency: for abatement device used to comply with the requirements of 8-5-328.1 or 331 | N | |
| 8-5-604 | Determination of Applicability Based on True Vapor Pressure | Y | |
| 8-5-605 | Measurement of Leak Concentration and Residual Concentrations | N | |
| 8-5-605.1 | Measurement of Leak Concentration and Residual Concentrations; EPA Method 21 Instrument | N | |
| 8-5-605.2 | Measurement of Leak Concentration and Residual Concentrations; Test Methods | N | |
| 8-5-606 | Analysis of Samples, Tank Cleaning Agents | N | |
| 8-5-606.1 | Analysis of Samples, Tank Cleaning Agents; IBP | N | |
| 8-5-606.2 | Analysis of Samples, Tank Cleaning Agents; TVP | N | |
| 8-5-606.3 | Analysis of Samples, Tank Cleaning Agents; VOC | N | |
| SIP • Regulation 8 Rule 5 | Storage of Organic Liquids (06/05/2003) Requirements for External Floating Roof Tanks | | |
| 8-5-111 | Limited Exemption, Tank Removal From and Return to Service | Y | |
| 8-5-111.2 | Limited Exemption, Tank Removal From and Return to Service; Compliance before notification | Y | |
| 8-5-111.5 | Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions | Y | |
| 8-5-111.6 | Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required | Y | |
| 8-5-111.7 | Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328 | Y | |
| 8-5-112 | Limited Exemption, Tanks in Operation | Y | |
| 8-5-112.2 | Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work per 8-5-404 | Y | |
| 8-5-112.4 | Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days | Y | |
| 8-5-117 | Exemption, Low Vapor Pressure | Y | |

IV. Source-Specific Applicable Requirements

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| 8-5-301 | Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system) | Y | |
| 8-5-304 | Requirements for External Floating Roofs | Y | |
| 8-5-304.4 | Requirements for External Floating Roofs; Floating roof requirements | Y | |
| 8-5-320 | Tank fitting requirements – Floating roof tanks | Y | |
| 8-5-320.2 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents | Y | |
| 8-5-320.3 | Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – | Y | |
| 8-5-320.5 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks | Y | |
| 8-5-320.5.2 | Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper | Y | |
| 8-5-321 | Primary seal requirements | Y | |
| 8-5-321.3 | Primary Seal Requirements; Metallic-shoe-type seal requirements | Y | |
| 8-5-321.4 | Primary seal requirements; Resilient toroid type seals requirements | Y | |
| 8-5-322 | Secondary seal requirements | Y | |
| 8-5-328 | Tank degassing requirements | Y | |
| 8-5-328.1 | Tank degassing requirements; Tanks > 75 cubic meters | Y | |
| 8-5-328.1.2 | Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing | Y | |
| 8-5-328.2 | Tank degassing requirements; Ozone Excess Day Prohibition | Y | |
| 8-5-401 | Inspection Requirements for External Floating Roof Tanks | Y | |
| 8-5-401.1 | Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections | Y | |
| 8-5-401.2 | Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections | Y | |
| 8-5-404 | Certification | Y | |
| 8-5-405 | Information required | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.2 | Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years | Y | |
| 8-5-502 | Tank Degassing Annual Source Test Requirement | Y | |
| 8-5-503 | Portable hydrocarbon detector | Y | |
| 40 CFR 60 Subpart Kb | NSPS Subpart Kb for Tanks (10/15/2003) | | |

IV. Source-Specific Applicable Requirements

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| | Requirements For Benzene Waste NESHAP External Floating Roof Tank | | |
| 60.112b(a)(2) | Standard for Volatile Organic Compounds (VOC); External floating roof option | Y | |
| 60.112b(a)(2)(i) | Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements | Y | |
| 60.112b(a)(2)(i)(A) | Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements | Y | |
| 60.112b(a)(2)(i)(B) | Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements | Y | |
| 60.112b(a)(2)(ii) | Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements | Y | |
| 60.112b(a)(2)(iii) | Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements | Y | |
| 60.113b(b)(1) | Testing and Procedures; External floating roof seal gap measurement frequency | Y | |
| 60.113b(b)(1)(i) | Testing and Procedures; External floating roof primary seal gaps measurement frequency | Y | |
| 60.113b(b)(1)(ii) | Testing and Procedures; External floating roof secondary seal gaps measurement frequency | Y | |
| 60.113b(b)(1)(iii) | Testing and Procedures; External floating roof reintroduction of VOL | Y | |
| 60.113b(b)(2) | Testing and Procedures; External floating roof seal gap measurement procedures | Y | |
| 60.113b(b)(2)(i) | Testing and Procedures; External floating roof measure seal gaps when roof is floating | Y | |
| 60.113b(b)(2)(ii) | Testing and Procedures; External floating roof measure seal gaps around entire circumference | Y | |
| 60.113b(b)(2)(iii) | Testing and Procedures; External floating roof seal method to determine surface area of seal gaps | Y | |
| 60.113b(b)(3) | Testing and Procedures; External floating roof method to calculate total surface area ratio | Y | |
| 60.113b(b)(4) | Testing and Procedures; External floating roof seal gap repair requirements | Y | |
| 60.113b(b)(4)(i) | Testing and Procedures; External floating roof primary seal gap limitations | Y | |
| 60.113b(b)(4)(i)(B) | Testing and Procedures; External floating roof primary seals no holes, tears, openings | Y | |
| 60.113b(b)(4)(ii)(A) | Testing and Procedures; External floating roof secondary seal installation | Y | |

IV. Source-Specific Applicable Requirements

Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|------------------------------------|------------------------------|
| 60.113b(b)(4)(ii)(B) | Testing and Procedures; External floating roof secondary seal gap | Y | |
| 60.113b(b)(4)(ii)(C) | Testing and Procedures; External floating roof secondary seals no holes, tears, openings | Y | |
| 60.113b(b)(4)(iii) | Testing and Procedures; External floating roof 30-day extension request for seal gap repairs | Y | |
| 60.113b(b)(5) | Testing and Procedures; External floating roof seal gap inspections 30 day notification | Y | |
| 60.113b(b)(6) | Testing and Procedures; External floating roof visual inspection when emptied and degassed | Y | |
| 60.113b(b)(6)(i) | Testing and Procedures; External floating roof--roof or seal defect repairs | Y | |
| 60.113b(b)(6)(ii) | Testing and Procedures; External floating roof notification prior to filling | Y | |
| 60.115b | Reporting and Recordkeeping Requirements; 60.112b(a) tanks | Y | |
| 60.115b(b) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating | Y | |
| 60.115b(b)(1) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification | Y | |
| 60.115b(b)(2) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report | Y | |
| 60.115b(b)(2)(i) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement | Y | |
| 60.115b(b)(2)(ii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data | Y | |
| 60.115b(b)(2)(iii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations | Y | |
| 60.115b(b)(3) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records | Y | |
| 60.115b(b)(3)(i) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement | Y | |
| 60.115b(b)(3)(ii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data | Y | |
| 60.115b(b)(3)(iii) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations | Y | |
| 60.115b(b)(4) | Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report | Y | |
| 40 CFR 61 Subpart FF | NESHAPS, Benzene Waste Operations (02/27/201412/04/2003) Requirements for External Floating Roof Tank | | |
| 61.340 | Applicability | Y | |
| 61.341 | Definitions | Y | |

IV. Source-Specific Applicable Requirements

**Table IV - G
Source-Specific Applicable Requirements
External Floating Roof Tank - Benzene Wastewater**

S-67 (TK-1715)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| 61.343 | Standards: Tanks; Benzene-containing wastes | Y | |
| 61.343(a) | Standards: Tanks containing benzene wastes can meet alternative standards in 61.351 | Y | |
| 61.351 | Alternative Standards for Tanks | Y | |
| 61.351(a)(2) | Alternative Standards for Tanks; External floating roof tanks must meet requirements of 40 CFR 60.112b(a)(2) | Y | |
| 61.351(b) | Alternative Standards for Tanks; Tanks subject to 61.351 are exempt from 61.343 | Y | |
| 61.356 | Recordkeeping requirements | Y | |
| 61.356(k) | Recordkeeping Requirements: Floating roof tanks subject to 61.351 must comply with 40 CFR 60.115b | Y | |
| 61.357 | Reporting requirements | Y | |
| 61.357(e) | Notification Requirements for Floating roof tanks subject to 61.351 | Y | |
| 61.357(f) | Reporting Requirements for Floating roof tanks subject to 61.351 | Y | |
| 40 CFR 63 Subpart CC | NESHAPS for Petroleum Refineries (07/13/201606/23/2003) Requirements for Group 1 wastewater streams | | |
| 63.640(c)(3) | Applicability and designation of affected sources: Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) | Y | |
| 63.647(a) | Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641. | Y | |
| 63.654(a) | Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. | Y | |

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

Condition 20762

This condition applies to tanks that are exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to the exemption in Regulation 8-5-117 for storage of organic liquids with a true vapor pressure of less than or equal to 25.8 mm Hg (0.5 psia).

1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg (0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulation 8-5-117)
2. Whenever the type of organic liquid in the tank is changed to a liquid with the true vapor pressure at the storage temperature greater than 25.8 mm Hg (0.5 psia), the owner/operator shall comply with all the requirements of Regulation 8-5 prior to making the change. (Basis: Regulation 8, Rule 5)
3. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: 8-5-117)

VI. Permit Conditions

Condition 20820

The portions of this Facility B2626 (Valero Benicia Refinery) permit that apply to Facility B5574 sources S-57 through S-62) are included here for completeness.

VALERO REFINING COMPANY Plant 12626
VALERO IMPROVEMENT PROJECT Application 5846
3400 East Second Street
Benicia, CA 94510

CARGO CARRIER and DOCK

27.The daily throughput of crude oil transferred at the plant's dock from the cargo ship or barge to the crude storage tanks (Facility B5574 S-57 through S-62, and Facility B2626 S-1047 and S-1048) shall be recorded in a District approved log. All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to District staff upon request. [Basis: Recordkeeping]

STORAGE TANKS

32. The Owner/Operator shall limit the combined material throughput at storage tanks, Facility B5574 S-57 through S- 62, and Facility B2626 S-1047 and S-1048, to no more than 171.5 kbbbl/day (annual daily average) or 62.6 Million Barrels per year. [Basis: Cumulative Increase]

33. The Owner/Operator shall maintain the daily combined material throughput at storage tanks, Facility B5574 S-57 through S-62, and Facility B2626 S-1047 and S-1048, in a District approved log to demonstrate whether or not the VIP has been triggered per part 23 and compliance with part 32. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Recordkeeping]

VI. Permit Conditions

Condition #21738

- S-1 Crude Oil Tank TK-1A, External Floating Roof, 3419 kgal**
- S-2 Crude Oil Tank TK-1B, External Floating Roof, 3419 kgal**
- S-4 Crude Oil Tank TK-10A, External Floating Roof, 1382 kgal**
- S-23 Crude Oil Tank TK-10B, External Floating Roof, 1382 kgal**

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

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

Modified by change of ownership application 7980 (Feb2004)

I. GENERAL CONDITIONS

This Section I from BAAQMD Condition 1240 had 20 Parts when ownership of S-1, S-2, S-4 and S-23 was transferred to Valero Logistics Operations in February 2004 (NuStar Logistics, L.P. effective 4/1/2007). In general, the parts in this section covered the main crude processing sources. Only Parts 14, 18, 18a, 18c and 18j are retained for S-1, S-2, S-4 and S-23.

1, 2, 3, 4,5, 5a, 5b, 6, 7, 8, 9, 10, 11, 12, and 13. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

14. The Owner/Operator shall not operate S-1, S-2, S-4 and S-23 unless the total tank emissions do not exceed the limits listed below:

- a. Non-Methane Hydrocarbons 6.64 tons/yr
(Basis: Cumulative Increase)

15, 16a, 16b and 17. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

18. To assure compliance with part I.14 the Owner/Operator shall perform the following monitoring on a semi-annual basis, starting on January 1 of each year.

18a. The Owner/Operator shall estimate emissions of Non-methane hydrocarbons (NMHC) for each quarter. (Basis: Cumulative Increase)

18b. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of this part.

VI. Permit Conditions

18c. The Owner/Operator shall estimate tank NMHC emissions from the following tanks using the most recent version of EPA's "Tanks" program or EPA publication AP-42: S-1, S-2, S-4 and S-23. (Basis: Cumulative Increase)

18d, 18e, 18f, 18g, 18h and 18i. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

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

19, 19a, 19b, 19c and 20. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

II. TANKAGE CONDITIONS:

This Section II from BAAQMD Condition 1240 had 92 Parts when ownership of S-1, S-2, S-4 and S-23 was transferred to Valero Logistics Operations in February 2004 (NuStar Logistics, L.P. effective 4/1/2007). In general, the parts in this section covered all of the storage tanks and loading rack sources. Only Parts 1 and 11 through 24 are retained for S-1, S-2, S-4 and S-23.

1. S-2 abatement requirement deleted 8/26/00. Modifications to S-2 completed converting S-2 to an external floating roof tank.

2, 3, 4, 5, 6, 7, 8, 9 and 10. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of this part.

11. Deleted 08/26/00. Tanks S-1, S-2, S-4 and S-23 conversion to external floating roof tanks completed under application 14513.

12. The Owner/Operator shall operate S-1, S-2, S-4 and S-23 external floating roof tanks of welded construction, equipped with liquid mounted mechanical shoe primary seals and zero-gap, rim mounted secondary seals, with only the following fittings. There shall be no ungasketed roof fittings.

- (1) Automatic Gauge Float Well/bolted cover, gasketed
- (1) Access Hatch, 24-inch diameter/bolted cover gasketed
- (1) Gauge Hatch Sample Well, 8 inch diameter/weighted mech actuation, gasketed
- (1) Sample well, 24-inch diameter/slit fabric seal 10% open

VI. Permit Conditions

- (1) Vacuum Breaker, 10-inch diameter/weighted mech actuation, gasketed
 - (1) Roof Drain (which does not drain water into product)
 - (18) Roof Legs, 3-inch diameter, adjustable, pontoon area, sock
 - (20) Roof Legs, 3-inch diameter, adjustable, center area, sock
 - (1) Rim Vent, 6-inch diameter/weighted mech actuation, gasketed
- (Basis: Cumulative Increase, Offsets)

Note 1: Slotted Guide Pole Control Configuration, per Addendum to API Publication 2517, May 1994, shall include the following components:

- a. Sliding cover;
- b. Well gasket;
- c. Pole sleeve with pole wiper approximately 6 inches above sliding cover, or District approved equivalent;
- d. Float with float wiper approximately 1 inch above the sliding cover, or alternately a float with multiple wipers. (Added per Application 14513, 9/95 or Application 366 1/2000)

13. The Owner/Operator of the four crude tanks S-1, S-2, S-4 and S-23 will inspect the primary seals and secondary tank seals and fittings quarterly, and maintain records of each inspection for five years from the date of the inspection. These records shall be made available to the District upon request. The quarterly inspections will include all items required by Regulations 8-5, as well as all items required by 40 CFR 60.113b(b). (Cumulative increase) (Added per Application 14513, 9/95)

14. The Owner Operator shall sum total crude oil throughput to S-1, S-2, S-4, and S-23 and shall not exceed 6,235,000 barrels (261,870,000 gallons) in any consecutive 12-month period. (Cumulative increase)

15. The Owner/Operator may store material other than crude oil in S-1, S-2, S-4, or S-23 only if all of the following are satisfied:

- a. the storage of each material complies with all other conditions applicable these sources
- b. the storage of each material complies with all other applicable regulatory requirements
- c. the Owner/Operator keeps District approved records which demonstrate to the District's satisfaction that no toxin listed in Regulation 2, Rule 5 is emitted from S-1, S-2, S-4, and S-23 in an amount in excess of the toxin's respective trigger levels set forth in Regulation 2, Rule 5.

(Basis: Cumulative increase, Toxics)

16. The Owner/Operator shall not operate S-1, S-2, S-4, and S-23 unless the true vapor pressure of each and all materials stored in each of S-1, S-2, S-4 and S-23 does not exceed 11 psia. (Basis: Cumulative increase, Offsets, Toxics)

17. Vapor Recovery Requirement Deleted 08/26/00. S-2 and S-4 conversion is complete.

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18. Part II.18 merged with part II.12.

19. Part II.19 merged with part II.12.

20. S-2 Vapor Recovery Requirement Deleted 08/26/00.

21. Deleted 6/1/00 per Application 366, S-4 converted roof from a fixed roof to an external floating roof.

22. The Owner/Operator of S-1, S-2, S-4, and S-23, at the conclusion of each day, shall record, by material name, in a District approved log, the total volume of each and every liquid material throughput to each of S-1, S-2, S-4, and S-23 during that day, in gallon units or barrel units. At the conclusion of each month, the Owner/Operator shall total the daily log recordings separately for each of S-1, S-2, S-4, and S-23 and record the respective sum as the monthly throughput for each source, in a District approved log. Additionally, the Owner/Operator shall record in a District approved log, the total volume of each and every liquid material throughput to S-1, S-2, S-4, and S-23 during each rolling 12 consecutive month period. This log shall be retained for at least 5 years from date of entry, shall be kept on site, and shall be made available to the District staff on request. (Basis: Cumulative increase)

23. At the conclusion of each month, the Owner/Operator shall record in a District approved log, the 12 consecutive month sum total throughput of all liquid materials to S-1, S-2, S-4, and S-23 combined. This log shall be retained for at least 5 years from date of entry, it shall be kept on site, and it shall be made available to the District staff on request. (Basis: Cumulative increase)

24. Material transferred from S-1, S-2, S-4, and/or S-23, which is not to be processed at the Facility A0901 (Plant #13193) S18 Crude Unit, shall only be transferred (out of the facility) by pipeline and shall not be transferred by marine vessel. (Basis: Cumulative increase)

25, 26, 27a, 28, 29, 30, 31, 31a, 32a, 32b, 32c, 32d, 32e, 33a, 33b, 34 through 58, 58a, 58b, 59, 59a, 59b, 60, 61a, 61b, 62, 62a, 62b, 63, 64a, 64b, 65 through 72, 72a, 72b, 73 through 91, 91a, 92 and 92a. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

III. 1, 2, 3, 4, 5, 6, 7, 8 and 9. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

IV. 1, 2, 2a, 2b, 2c and 3. Deleted with transfer of ownership application 7980/8915. See condition 1240 for facility A0901 (plant 13193) for the original text of these parts.

V. 1. Deleted with transfer of ownership application 7980/8915. See condition 1240 for

VI. Permit Conditions

facility A0901 (plant 13193) for the original text of this part.

Condition #22333

Source S-57 Floating Roof Tank

Based on Condition 8564 from Application 9817 (Nov 92).

Modified by Application 7980 and 8915 when S-57 ownership was transferred to Valero Logistics Operations. (February 2004) (NuStar Logistics, L.P. effective 4/1/2007).

1. The Owner/Operator shall not heat Tank 1701 (S-57) when storing "light" crude oil. (Basis: Cumulative Increase)
2. The Owner/Operator shall limit the vapor pressure of material stored in TK1701 to no more than 3.5 psi. (Basis: Cumulative Increase)
3. Deleted. (Basis: The owner of S-57 does not own equipment associated with S-57 that is subject to fugitive emission regulations. See Condition 8564 for facility B2626.)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), semi-annual (SA), quarterly (Q), monthly (M), weekly (W), daily (D), hourly (H), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

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

**Table VII – General
 Applicable Limits and Compliance Monitoring Requirements
 FACILITY-WIDE APPLICABILITY**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------|--------------------------------------|--------|-----------------------|---|--|------------------------------|----------------------|
| Ambient H ₂ S | BAAQMD Regulation 9-2-301 | N | | Limitations on H ₂ S ground level concentrations | BAAQMD 9-2-501 | C | H ₂ S GLM |
| | | Y | | Refinery MACT Startup, Shutdown, Malfunction Report | 40 CFR 63 Subpart CC 63.6554(h) | P/SA | Report |
| | | Y | | Refinery MACT Periodic Report | 40 CFR 63 Subpart CC 63.6554(g) | P/SA | Report |
| Benzene in Waste | | Y | | Benzene Waste NESHAPS Annual Report | 40 CFR 61 Subpart FF 61.357(d)(2) 61.357(d)(8) | P/A | Report |
| Benzene in Waste | 40 CFR 61 Subpart FF 61.342(e)(2)(i) | Y | | Benzene Waste <6 megagrams/year | 40 CFR 61 Subpart FF 61.357(d)(5) 61.356(b)(4) | P/A | Report Records |
| | | Y | | Benzene Waste NESHAPS Quarterly Report | 40 CFR 61 Subpart FF 61.357(d)(6) 61.357(d)(7) | P/Q | Report |

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – General
Applicable Limits and Compliance Monitoring Requirements
FACILITY-WIDE APPLICABILITY**

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-----------------------|--|----------|-----------------------|---|---|-------------------------------------|----------------------------------|
| | 40 CFR 61 Subpart FF 61.345(b) | Y | | Visual inspection of container covers | 40 CFR 61 Subpart FF 61.345(b) | P/Q | Visual Inspection |
| <u>H₂S</u> | <u>40 CFR Part 60 Subpart J 60.104(a)(1)</u> | <u>Y</u> | | <u>Fuel gas H₂S concentration limited to 162 ppmv. (Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | <u>40 CFR Part 60 Subpart J 60.105(a)(4) (AMPs for Tank Degassing and Vapor Control Projects at Petroleum Refineries)</u> | <u>P/Event</u> | <u>Grab Samples</u> |
| <u>H₂S</u> | <u>40 CFR Part 60 Subpart Ja 60.102a(g)(1)(ii)</u> | <u>Y</u> | | <u>Fuel gas H₂S concentration limited to 162 ppmv. (Tank Degassing at Petroleum Refineries)</u> | <u>40 CFR Part 60 Subpart Ja 60.107a(a)(2) (AMPs for Tank Degassing at Petroleum Refineries)</u> | <u>P/Event</u> | <u>Grab Samples</u> |
| VOC | BAAQMD 8-5-117 SIP 8-5-117 | Y | | True vapor pressure not greater than 0.5 psia in tanks exempt from BAAQMD 8-5 | BAAQMD Condition 20762 Part 1 | P/E On change of service | Look up table or sample analysis |
| VOC | BAAQMD 8-5-328.1 SIP 8-5-328.1.2 | Y | | Tank degassing control device standard; includes 90% abatement efficiency requirement. | BAAQMD 8-5-502.2 SIP8-5-502 | P/A OR P/E | Source test |
| | None | N | | Enhanced monitoring program (OPTIONAL) | BAAQMD 8-5-411.1 8-5-411.2 | P/E if facility elects to implement | Report |
| VOC | None | Y | | Determination of Applicability based on true vapor pressure | BAAQMD 8-5-6028-5-604 | P/E | Look up table or sample analysis |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
NSPS Kb EXTERNAL FLOATING ROOF TANKS
S-1, S-2, S-4, S-23 (TK-4601A,TK-4601B, TK-4610A,TK-4610B)
CRUDE STORAGE TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|--|--------|-----------------------|--|---|--|---|
| BAAQMD and SIP Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301 | Y | | True vapor pressure | BAAQMD 8-5-501.1 | P/E initially and upon change of service | Look up table or sample analysis; Records |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.1 | N | | External floating roof pontoon leak standards | BAAQMD 8-5-412 | P/Q after leak is discovered until leak is repaired | Inspection |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.2 | N | | External floating roof pontoon repair standards | BAAQMD 8-5-304.6.2 | P/E next removal from service after leak is discovered | Repair |
| VOC | BAAQMD 8-5-320 SIP 8-5-320 | Y | | Floating roof fitting closure standards ; includes gasketed covers | BAAQMD 8-5-401.2 SIP 8-5-401.2 and BAAQMD Condition 21738, Part II.13 | P/Q or event basis | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 SIP 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1, SIP 8-5-401.1 and BAAQMD Condition | P/Q and every time a seal is replaced s | Seal inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
NSPS Kb EXTERNAL FLOATING ROOF TANKS
S-1, S-2, S-4, S-23 (TK-4601A, TK-4601B, TK-4610A, TK-4610B)
CRUDE STORAGE TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|----------------------------------|-------------------|-----------------------|--|---|---|---|
| | | | | | 21738, Part II.13 | | |
| VOC | BAAQMD 8-5-322 SIP 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD Condition 21738, Part II.13 BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/Q and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1 | N | | Residual organic concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-328.1 | P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-328.1 | N | | Abatement device efficiency must be at least 90%, by weight | BAAQMD 8-5-502.2 | P/A or P/E | Source test |
| VOC | SIP 8-5-328.1.2 | Y | | Concentration of organic compounds of < 10,000 ppm as methane after degassing | SIP 8-5-503 | P each time emptied & degassed | Portable hydrocarbon detector |
| VOC | BAAQMD 8-5-331 | N | | OPTION 1: Tank cleaning standards – use compliant cleaning agents (IBP>302F or TVP < 0.5 psia or VOC < 50 g/l) | BAAQMD 8-5-606 | None | Sample analysis |
| | | | | OPTION 2: Tank cleaning standards - abate emissions to at least 90% by weight | BAAQMD 8-5-502 8-5-502.2 8-5-603 | P/A | Source Test |
| VOC | BAAQMD 8-5-332 | N | | Tank sludge container standards | None | NA | None |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 SIP 8-5-404 | P/E After each tank seal inspection | Inspection report |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
NSPS Kb EXTERNAL FLOATING ROOF TANKS
S-1, S-2, S-4, S-23 (TK-4601A, TK-4601B, TK-4610A, TK-4610B)
CRUDE STORAGE TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------------|---|--------|-----------------------|---|--|--|--|
| | | | | | 8-5-405 | | |
| VOC | | Y | | Records of liquids stored and TVPs | BAAQMD 8-5-501.1 | P/ upon change of service | Records |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | P/ after each tank seal replacement | Records |
| NESHAPS CC and NSPS Kb | 40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS | | | | | | |
| VOC | 63.640 (n)(4 2), 60.112b (a)(2)(ii) | Y | | Deck fitting closure standards; includes gasketed covers | 63.640(n)(8) 60.113b (b)(6) | P/E (Each time tank is emptied & degassed) | Visual inspection of roof, seals, and fittings |
| VOC | 63.640 (n)(4 2), 60.113b (b)(4)(i) | Y | | Primary rim-seal standards; includes gap criteria. Repairs are required if accumulated area of gap exceeds 212 sq. cm/m of vessel diameter, width of any portion of the gap exceeds 3.81 cm, the vertical distance of seal is less than 61 cm above the liquid surface, or there are holes, tears or openings in shoe, seal fabric, or seal envelope. | BAAQMD Condition 21738, Part II.13 63.640(n)(8) 60.113b (b)(1)-(b)(3) | P/Q or event basis | Seal inspection |
| VOC | 63.640 (n)(4 2), 60.113b (b)(4)(ii) | Y | | Secondary rim-seal standards; includes gap criteria. Repairs are required if accumulated area of gap exceeds 21.2 sq. cm/m of vessel diameter, width of any portion of the gap exceeds 1.27 cm, or there are holes, tears or openings in seal or | BAAQMD Condition 21738, Part II.13 63.640(n)(8) 60.113b (b)(1)-(b)(3) | P/Q or event basis | Seal inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
NSPS Kb EXTERNAL FLOATING ROOF TANKS
S-1, S-2, S-4, S-23 (TK-4601A,TK-4601B, TK-4610A,TK-4610B)
CRUDE STORAGE TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------|------------------------------------|--------|-----------------------|---|--|-------------------------------------|---|
| | | | | seal fabric | | | |
| VOC | | Y | | None | 63.640(n)(8) 60.116b(c) | P/E Upon change of service | Record of liquid stored and true vapor pressure |
| BAAQMD Permit | Permit Conditions | | | | | | |
| NMHC | BAAQMD Condition 21738, part I.14 | Y | | Emissions of NMHC < 6.64 tons per year | BAAQMD Condition 21738, parts I.18a, I.18c and I.18j | P/SA | Calculations |
| | BAAQMD Condition 21738, part II.16 | Y | | Vapor pressure shall not exceed 11 psia | BAAQMD 8-5-501.1 | P/E | Records of liquids stored and TVPs |
| Vapor Pressure | BAAQMD Condition 21738, part II.16 | Y | | Vapor pressure shall not exceed 11 psia | BAAQMD Condition 21738, part II.22 | P/D | Records |
| Vapor Pressure | BAAQMD Condition 21738, part II.16 | Y | | Vapor pressure shall not exceed 11 psia | BAAQMD Condition 21738, part II.23 | P/M | Records |
| Through-put | BAAQMD Condition 21738, part II.14 | Y | | 6,235,000 barrels/yr for S-1, S-2, S-4, and S-23 combined | BAAQMD Condition 21738, part II.22 | P/D | records |
| Through-put | BAAQMD Condition 21738, part II.14 | Y | | 6,235,000 barrels/yr for S-1, S-2, S-4, and S-23 combined | BAAQMD Condition 21738, part II.23 | P/M | records |

VII. Applicable Limits and Compliance Monitoring Requirements

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-57 (TK-1701), S-58 (TK-1702) – MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|---|--------|-----------------------|---|-----------------------------------|--|---|
| BAAQMD and SIP Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301 | Y | | True vapor pressure | BAAQMD 8-5-501.1 | P/E initially and upon change of service | Look up table or sample analysis; Records |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.1 | N | | External floating roof pontoon leak standards | BAAQMD 8-5-412 | P/Q after leak is discovered until leak is repaired | Inspection |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.2 | N | | External floating roof pontoon repair standards | BAAQMD 8-5-304.6.2 | P/E next removal from service after leak is discovered | Repair |
| VOC | BAAQMD 8-5-320 SIP 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 SIP 8-5-401.2 | P/SA, or P/Q if enhanced monitoring | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 SIP 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 SIP 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring, and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1 | N | | Residual organic concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-328.1 | P/each time emptied & degassed; | Method 21 portable hydrocarbon detector |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-57 (TK-1701), S-58 (TK-1702) – MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|--|-------------------|-----------------------|--|--|---|-------------------------------|
| | | | | | | 4 consecutive measurements at 15 minute intervals | |
| VOC | BAAQMD 8-5-328.1 | N | | Abatement device efficiency must be at least 90% by weight | BAAQMD 8-5-502.2 | P/A or P/E | Source test |
| VOC | SIP 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | SIP 8-5-503 | P/each time emptied & degassed | Portable hydrocarbon detector |
| VOC | BAAQMD 8-5-331 | N | | OPTION 1: Tank cleaning standards – use compliant cleaning agents (IBP>302F or TVP < 0.5 psia or VOC < 50 g/l) | BAAQMD 8-5-606 | None | Sample analysis |
| | | | | OPTION 2: Tank cleaning standards - abate emissions to at least 90% by weight | BAAQMD 8-5-502 8-5-502.2 8-5-603 | P/A | Source Test |
| VOC | BAAQMD 8-5-332 | N | | Tank sludge container standards | None | NA | None |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 SIP 8-5-404 8-5-405 | P/after each tank inspection and source test | Reports |
| VOC | | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | P/ upon change of service | Records |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | P/after each tank seal inspection | Records |
| | | | | | | | |
| NESHAPS CC | 40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMHON 40 CFR 63 Subpart WW – NESHAP for Storage Vessels – Control Level 2 LIMITS AND MONITORING FOR MACT GROUP 1 EXTERNAL FLOATING ROOF TANKS | | | | | | |
| HAP | 63.646(f) | Y | | Deck fitting closure standards | 63.646 (a) & (e) 63.120 (b)(10) | Each time emptied & degassed | visual inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-57 (TK-1701), S-58 (TK-1702) – MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------|---------------------------------------|----------|-----------------------|---|-------------------------------------|--|--|
| HAP | 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 63.646(a) 63.120 (b)(1) & (2) | 5 yr intervals | measurement and visual inspection |
| HAP | 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 63.646(a) 63.120 (b)(1) & (2) | P/A | measurement and visual inspection |
| <u>HAP</u> | <u>63.660</u> | <u>Y</u> | | <u>Rim-seal standards, deck fitting standards, operational requirements, inspection and repair requirements</u> | | <u>P/A or periodic each time emptied & degassed, at least every 10 years</u> | <u>measurement and visual inspection</u> |
| BAAQMD Permit | PERMIT CONDITIONS | | | | | | |
| | Applies only to S-57 (TK-1701) | | | | | | |
| VOC | Condition # 22333 Part 1 | Y | | Tank shall not be heated while storing “light” crude oil. | Condition # 22333 Part 1 | P/E | Record |
| Vapor Pressure | Condition # 22333 Part 2 | Y | | Maximum vapor pressure of material stored in TK 1701 shall not exceed 3.5 psi. | Cition # 22333 Part 2 | P/E | Record |

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706)
MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|---|--------|-----------------------|---------------------|---------------------------------|---|---|
| BAAQMD and SIP Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301 | Y | | True vapor pressure | BAAQMD 8-5-501.1 | P/E initially and upon change of service | Look up table or sample analysis; Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706)
MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|--------------------------------------|-------------------|-----------------------|---|---|---|---|
| VOC | BAAQMD 8-5-304.6 8-5-304.6.1 | N | | External floating roof pontoon leak standards | BAAQMD 8-5-412 | P/Q after leak is discovered until leak is repaired | Inspection |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.2 | N | | External floating roof pontoon repair standards | BAAQMD 8-5-304.6.2 | P/E next removal from service after leak is discovered | Repair |
| VOC | BAAQMD 8-5-320 SIP 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 SIP 8-5-401.2 | P/SA, or P/Q if enhanced monitoring | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 SIP 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 SIP 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1 | N | | Residual organic concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-328.1 | P/each time emptied & degassed; 4 consecutive measurements at 15 minute intervals | Method 21 portable hydrocarbon detector |
| VOC | BAAQMD 8-5-328.1 | N | | Abatement device efficiency must be at least 90%, by weight | BAAQMD 8-5-502.2 | P/A or P/E | Source test |
| VOC | SIP 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | SIP 8-5-503 | P/each time emptied & degassed | Portable hydrocarbon detector |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706)
MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------------|----------|-----------------------|---|--|--|--|
| VOC | BAAQMD 8-5-331 | N | | OPTION 1: Tank cleaning standards – use compliant cleaning agents (IBP>302F or TVP < 0.5 psia or VOC < 50 g/l) | BAAQMD 8-5-606 | None | Sample analysis |
| | | | | OPTION 2: Tank cleaning standards - abate emissions to at least 90% by weight | BAAQMD 8-5-502 8-5-502.2 8-5-603 | P/A | Source Test |
| VOC | BAAQMD 8-5-332 | N | | Tank sludge container standards | None | <u>NA</u> | None |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 SIP 8-5-404 8-5-405 | P/after each tank inspection and source test | Reports |
| VOC | | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | P/ upon change of service | Records |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | P/after each tank seal inspection | Records |
| NESHAPS CC 40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMHON 40 CFR 63 Subpart WW – NESHAP for Storage Vessels – Control Level 2 LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS | | | | | | | |
| HAP | 63.646(f) | Y | | Deck fitting closure standards | 63.646 (a) & (e) 63.120 (b)(10) | Each time emptied & degassed | visual inspection |
| HAP | 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 63.646(a) 63.120 (b)(1) & (2) | 5 yr intervals | measurement and visual inspection |
| HAP | 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 63.646(a) 63.120 (b)(1) & (2) | P/A | measurement and visual inspection |
| <u>HAP</u> | <u>63.660</u> | <u>Y</u> | | <u>Rim-seal standards, deck fitting standards, operational requirements, inspection and repair requirements</u> | | <u>P/A or periodic each time emptied & degassed,</u> | <u>measurement and visual inspection</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706)
MACT Group 1 EXTERNAL FLOATING-ROOF TANKS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-------------------|--------|-----------------------|-------|---------------------------------|------------------------------|-----------------|
| | | | | | | at least every 10 years | |

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-68 (TK-1716), S-72 (TK-1720)
EXTERNAL FLOATING-ROOF TANK
LOW VAPOR PRESSURE TANKS, MACT GROUP 2

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|-------------------------------|---|--------|-----------------------|--|---|------------------------------|---|
| BAAQMD and SIP Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FLOATING-ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1 | Y | | True vapor pressure not greater than 0.5 psia. | BAAQMD Condition #20762, Parts 1 & 3 | P/E upon change of service | Look up table or sample analysis; Records |
| NESHAPS CC | 40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries <u>40 CFR 63 Subpart WW – NESHAP for Storage Vessels – Control Level 2</u> REQUIREMENTS FOR GROUP II STORAGE VESSELS – RECORDKEEPING ONLY | | | | | | |
| HAP | 63.641 | Y | | Retain weight percent total organic HAP in stored liquid for Group 2 determination | 63.65 5 4(i)(1) (iv) <u>and (vi)</u> | P/E | Record |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-74 (TK-1734)
MACT GROUP 1 EXTERNAL FLOATING-ROOF TANK

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|---|--------|-----------------------|---|-----------------------------------|---|---|
| BAAQMD and SIP Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301 | Y | | True vapor pressure | BAAQMD 8-5-501.1 | P/E initially and upon change of service | Look up table or sample analysis; Records |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.1 | N | | External floating roof pontoon repair standards | BAAQMD 8-5-412 | P/Q after leak is discovered until leak is repaired | Inspection |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.2 | N | | External floating roof pontoon repair standards | BAAQMD 8-5-304.6.2 | P/E next removal from service after leak is discovered | Repair |
| VOC | BAAQMD 8-5-320 SIP 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 SIP 8-5-401.2 | P/SA, or P/Q if enhanced monitoring | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 SIP 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 SIP 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1 | N | | Residual organic concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-328.1 | P/each time emptied & degassed; 4 consecutive measurements at 15 | Method 21 portable hydrocarbon detector |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-74 (TK-1734)
MACT GROUP 1 EXTERNAL FLOATING-ROOF TANK

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------|---|-------------------|-----------------------|--|--|--|-----------------------------------|
| | | | | | | minute intervals | |
| VOC | BAAQMD 8-5-328.1 | N | | Abatement device efficiency must be at least 90% by weight | BAAQMD 8-5-502.2 | P/A or P/E | Source test |
| VOC | SIP 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | SIP 8-5-503 | P/each time emptied & degassed | Portable hydrocarbon detector |
| VOC | BAAQMD 8-5-331 | N | | OPTION 1: Tank cleaning standards – use compliant cleaning agents (IBP>302F or TVP < 0.5 psia or VOC < 50 g/l) | BAAQMD 8-5-606 | None | Sample analysis |
| | | | | OPTION 2: Tank cleaning standards - abate emissions to at least 90% by weight | BAAQMD 8-5-502 8-5-502.2 8-5-603 | P/A | Source Test |
| VOC | BAAQMD 8-5-332 | N | | Tank sludge container standards | None | NA | None |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 SIP 8-5-4048-5-405 | P/after each tank inspection and source test | Reports |
| VOC | | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | P/ upon change of service | Records |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | P/after each tank seal inspection | Records |
| NESHAPS CC | 40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMHON 40 CFR 63 Subpart WW – NESHAP for Storage Vessels – Control Level 2 LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS | | | | | | |
| HAP | 63.646(f) | Y | | Deck fitting closure standards | 63.646 (a) & (e) 63.120 (b)(10) | Each time emptied & degassed | visual inspection |
| HAP | 63.646(a) 63.120 (b)(3)&(5) | Y | | Primary rim-seal standards; includes gap criteria | 63.646(a) 63.120 (b)(1) & (2) | 5 yr intervals | measurement and visual inspection |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-74 (TK-1734)
MACT GROUP 1 EXTERNAL FLOATING-ROOF TANK

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|-----------------------------------|----------|-----------------------|---|-------------------------------------|--|--|
| HAP | 63.646(a) 63.120 (b)(4)&(6) | Y | | Secondary rim-seal standards; includes gap criteria | 63.646(a) 63.120 (b)(1) & (2) | P/A | measurement and visual inspection |
| <u>HAP</u> | <u>63.660</u> | <u>Y</u> | | <u>Rim-seal standards, deck fitting standards, operational requirements, inspection and repair requirements</u> | | <u>P/A or periodic each time emptied & degassed, at least every 10 years</u> | <u>measurement and visual inspection</u> |

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-70 (TK-1718), S-71 (TK-1719)
EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|---|--------|-----------------------|--|--------------------------------------|------------------------------|---|
| BAAQMD and SIP Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED-ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition #20762, Part 1 | Y | | True vapor pressure not greater than 0.5 psia. | BAAQMD Condition #20762, Parts 1 & 3 | P/E upon change of service | Look up table or sample analysis; Records |
| NONE | 40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system. | | | | | | |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S-67 (TK-1715)
EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------------------|---|--------|-----------------------|---|---|--|---|
| BAAQMD Regulation 8-5 | Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS | | | | | | |
| Vapor Pressure | BAAQMD 8-5-117 8-5-301 SIP 8-5-117 8-5-301 | Y | | True vapor pressure | BAAQMD 8-5-501.1 | P/E initially and upon change of service | Look up table or sample analysis; Records |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.1 | N | | External floating roof pontoon leak standards | BAAQMD 8-5-412 | P/Q after leak is discovered until leak is repaired | Inspection |
| VOC | BAAQMD 8-5-304.6 8-5-304.6.2 | N | | External floating roof pontoon repair standards | BAAQMD 8-5-304.6.2 | P/E next removal from service after leak is discovered | Repair |
| VOC | BAAQMD 8-5-320 SIP 8-5-320 | Y | | Floating roof fitting closure standards; includes gasketed covers | BAAQMD 8-5-401.2 SIP 8-5-401.2 | P/SA, or P/Q if enhanced monitoring | Measurement and visual inspection |
| VOC | BAAQMD 8-5-321 SIP 8-5-321 | Y | | Primary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring, and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-322 SIP 8-5-322 | Y | | Secondary rim-seal standards; includes gap criteria | BAAQMD 8-5-401.1 SIP 8-5-401.1 | P/SA, or P/Q if enhanced monitoring, and every time a seal is replaced | Seal inspection |
| VOC | BAAQMD 8-5-328.1 | N | | Residual organic concentration of < 10,000 ppm as methane after degassing | BAAQMD 8-5-328.1 | P/each time emptied & degassed; 4 consecutive measurement | Method 21 portable hydrocarbon detector |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S-67 (TK-1715)
EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|------------------------|---|--------|-----------------------|--|--|--|-------------------------------|
| | | | | | | s at 15 minute intervals | |
| VOC | BAAQMD 8-5-328.1 | N | | Abatement device efficiency must be at least 90%, by weight | BAAQMD 8-5-502.2 | P/A or P/E | Source test |
| VOC | SIP 8-5-328.1.2 | Y | | Concentration of < 10,000 ppm as methane after degassing | SIP 8-5-503 | P/each time emptied & degassed | Portable hydrocarbon detector |
| VOC | BAAQMD 8-5-331 | N | | OPTION 1: Tank cleaning standards – use compliant cleaning agents (IBP>302F or TVP < 0.5 psia or VOC < 50 g/l) | BAAQMD 8-5-606 | None | Sample analysis |
| | | | | OPTION 2: Tank cleaning standards - abate emissions to at least 90% by weight | BAAQMD 8-5-502 8-5-502.2 8-5-603 | P/A | Source Test |
| VOC | BAAQMD 8-5-332 | N | | Tank sludge container standards | None | <u>NA</u> | None |
| VOC | | Y | | Certification reports on tank inspections and source tests | BAAQMD 8-5-404 SIP 8-5-404 8-5-405 | P/after each tank inspection and source test | reports |
| VOC | | Y | | Record of liquids stored and true vapor pressure | BAAQMD 8-5-501.1 | P/ upon change of service | Records |
| VOC | | Y | | Records of tank seal replacement | BAAQMD 8-5-501.2 | P/after each tank seal inspection | records |
| NONE | National Emission Standard for Petroleum Refineries (Refinery MACT) Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a). | | | | | | |
| NESHAPS FF and NSPS Kb | 40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks | | | | | | |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S-67 (TK-1715)
EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------|--|--------|-----------------------|---|--|------------------------------|-----------------------------------|
| VOC | 63.647(a), 61.351 (a)(2), 60.112b(a) (2)(ii) | Y | | Deck fitting closure standards | 63.647(a), 61.351(a)(2), 60.113b(b)(6) | Each time emptied & degassed | visual inspection |
| VOC | 63.647(a), 61.351 (a)(2), 60.113b (b)(4)(i) | Y | | Primary rim-seal standards; includes gap criteria | 63.647(a), 61.351(a)(2), 60.113b(b)(1), (2) & (3) | 5 yr intervals | measurement and visual inspection |
| VOC | 63.647(a), 61.351 (a)(2), 60.113b (b)(4)(ii) | Y | | Secondary rim-seal standards; includes gap criteria | 63.647(a), 61.351(a)(2), 60.113b(b)(1), (2) & (3) | P/A | measurement and visual inspection |

VIII. TEST METHODS

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

Table VIII
Test Methods

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|---|--|
| BAAQMD 8-5-117 SIP 8-5-117 BAAQMD Condition 20762 Part 1 | Low Vapor Pressure Exemption for Tanks | 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 1 |
| BAAQMD 8-5-301 8-5-602 8-5-604 SIP 8-5-301 | Determination of Applicability based on True Vapor Pressure | BAAQMD 8-5 Table I. 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 1 |
| BAAQMD 8-5-304.6.1 8-5-605.1 8-5-605.2 | Leaking EFR pontoon standards – gas tight | EPA Method 21 [40 CFR 60 Appendix A] Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector |
| BAAQMD 8-5-320 SIP 8-5-320 | Floating Roof Tank fitting gap measurement | Physical measurements as described in BAAQMD 8-5-320/SIP 8-5-320 when required in BAAQMD 8-5-401.2 (external floating roof tanks) |
| BAAQMD 8-5-321 SIP 8-5-321 | Floating Roof Tank primary rim seal gap measurement | Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401.1 (external floating roof tanks) |
| BAAQMD 8-5-322 SIP 8-5-322 | Floating Roof Tank secondary rim seal gap measurement | Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401.1 (external floating roof tanks) |
| BAAQMD 8-5-328.1 8-5-502.2 8-5-603 SIP 8-5-328.1.2 8-5-603.2 | Tank Degassing Emission Control System, 90% Abatement Efficiency Requirements | Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling |
| BAAQMD 8-5-328.1 8-5-605.1 8-5-605.2 SIP 8-5-328.1.2 | Organic concentration in tank < 10,000 ppm as methane after degassing | EPA Method 21 [40 CFR 60, Appendix A], Determination of Volatile Organic Compound Leaks |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|---|--|
| BAAQMD 8-5-331 8-5-331.1 8-5-606 | Tank cleaning material standards: IBP > 302 F; TVP < 0.5 psia; VOC < 50 g/l | IBP: ASTM D-1078-93; TVP: Manual of Procedures, Volume III, Lab Method 28; VOC: Manual of Procedures, Volume III, Lab Method 31; Alternate method with written approval from APCO and EPA. |
| BAAQMD 8-5-331 8-5-502.2 8-5-603 | Tank Cleaning Emission Control System, 90% Abatement Efficiency Requirements | Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling |
| 40 CFR 60 Subpart Kb 60.112b(a) | Vapor Pressure | ASTM Method D2879-83, 96, or 97. Test Method for Vapor Pressure-Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope. |
| 40 CFR 60 Subpart Kb 60.113b (b)(4)(i) | NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement | 40 CFR 61 Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures |
| 40 CFR 60 Subpart Kb 60.113b (b)(4)(ii) | NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement | 40 CFR 61 Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures |
| 40 CFR 61 Subpart FF 61.345 (a)(1)(i) | Container fittings leak detection | EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) |
| 40 CFR 61 Subpart FF 61.342(e)(2)(i) | Benzene in Wastes subject to 6 Mg/year limit | 40 CFR 61 Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions |
| 40 CFR 61 Subpart FF 61.355(c)(3) | Measure benzene concentration in waste streams | From "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846: (1) Method 8020, Aromatic Volatile Organics, (2) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series (3) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics (4) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique From 40 CFR Part 136, Appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which these are approved EPA methods: (1) Method 602, Purgeable Aromatics, (2) Method 624, Purgeables |
| 40 CFR 61 Subpart FF 61.355(h) | Test equipment for compliance with no detectable emissions requirements of 40 CFR 61 Subpart FF | EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks) |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|--|--|
| 40 CFR 63 Subpart CC 63-646(a) 40 CFR 63 Subpart G 60.120(b)(3) 60.120(b)(5) | Refinery MACT (40 CFR 63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement | 40 CFR 63 Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance |
| 40 CFR 63 Subpart CC 63-646(a) 40 CFR 63 Subpart G 60.120(b)(4) 60.120(b)(6) | Refinery MACT (40 CFR 63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement | 40 CFR 63 Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance |

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

**Table IX A-1
 Permit Shield for Non-Applicable Requirements**

| Citation | Title or Description | Reason Not Applicable |
|-----------------|-----------------------------|------------------------------|
| None | None | None |

IX. Permit Shield

B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a “hybrid” monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

Table IX B - 1
Permit Shield for Subsumed Requirements
S1, S2, S4, AND S23, CRUDE STORAGE TANKS

| Subsumed Requirement Citation | Title or Description | Streamlined Requirements | Title or Description |
|---|---|-------------------------------------|--|
| NSPS Subpart Kb, 40 CFR 60.113b(b)(1)(i) and (ii) | Measurement of gaps between tank wall and primary and secondary seals at least once per 5 years and at least once per year, respectively. | BAAQMD Condition # 21738 Part II.13 | Quarterly inspection of primary and secondary tank seals and fittings for S1, S2, S4, S23. Include all items required by BAAQMD 8-5 and 40 CFR 60.113b(b). |
| BAAQMD 8-5-401.1 | Primary and secondary seal gap measurements twice per calendar year at 4 to 8 month intervals or four times per calendar year at 2 to 4 month intervals for tanks subject to enhanced monitoring per 8-5-411. | BAAQMD Condition # 21738 Part II.13 | Quarterly inspection of primary and secondary tank seals and fittings for S1, S2, S4, S23. Include all items required by BAAQMD 8-5 and 40 CFR 60.113b(b). |
| BAAQMD 8-5-401.2 | Tank fitting inspections twice per calendar year at 4 to 8 month intervals or four times per calendar year at 2 to 4 month intervals for tanks subject to enhanced monitoring per 8-5-411. | BAAQMD Condition # 21738 Part II.13 | Quarterly inspection of primary and secondary tank seals and fittings for S1, S2, S4, S23. Include all items required by BAAQMD 8-5 and 40 CFR 60.113b(b). |
| SIP 8-5-401.1 | Primary and secondary seal gap measurements twice per calendar year at 4 to 8 month intervals | BAAQMD Condition # 21738 Part II.13 | Quarterly inspection of primary and secondary tank seals and fittings for S1, S2, S4, S23. Include all items required by BAAQMD 8-5 and 40 CFR 60.113b(b). |
| SIP 8-5-401.2 | Tank fitting inspections twice per calendar year at 4 to 8 month intervals | BAAQMD Condition # 21738 Part II.13 | Quarterly inspection of primary and secondary tank seals and fittings for S1, S2, S4, S23. Include all items required by BAAQMD 8-5 and 40 CFR 60.113b(b). |

X. REVISION HISTORY

Initial Issuance – (Application No. 8915) December 1, 2003

**Title V Permit Issuance:
Administrative Amendment - (Application No. 8915) October 4, 2006**

**Reopening:
Minor Modification – (Application No. 15981) May 3, 2007**

Renewal – (Application No. 17682)
Public Notice: July 15, 2010
EPA Review: Septebmer 9, 2010 - October 23, 2010
Final: December 20, 2010

Title V Permit Issuance:
Administrative Amendment –(Application No. 28596) July 17, 2017

Renewal (Application No. 27200) (MayJuly 19XX, 20158)

XI. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

API

American Petroleum Institute

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

C5

An Organic chemical compound with five carbon atoms

C6

An Organic chemical compound with six carbon atoms

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

CEM

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

X. Glossary

CEQA

California Environmental Quality Act

CFP

Clean Fuels Project

CFR

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

CO

Carbon Monoxide

CO₂

Carbon Dioxide

COM

Continuous Opacity Monitor

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

DAF

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

DNF

Dissolved Nitrogen Flotation (See DAF)

dscf

Dry Standard Cubic Feet

dscm

Dry Standard Cubic Meter

DWT

Dead Weight Ton

X. Glossary

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT

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

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

ETP

Effluent Treatment Plant

Excluded

Not subject to any District regulations.

FCC

Fluid Catalytic Cracker

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPS), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FR

Federal Register

FRT

Floating Roof Tank (See EFRT and IFRT)

GDF

Gasoline Dispensing Facility

X. Glossary

GLM

Ground Level Monitor

grains

1/7000 of a pound

Graphitic

Made of graphite.

HAP

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

H₂S

Hydrogen Sulfide

H₂SO₄

Sulfuric Acid

Hg

Mercury

HHV

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

IFRT

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

ISOM

Isomerization plant

LHV

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

Lighter

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

Long ton

X. Glossary

2200 pounds

Major Facility

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

MDEA

Methyl Diethanolamine

MFR

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

Mo Gas

Motor gasoline

MOP

The District's Manual of Procedures.

MOSC

Mobil Oil Sludge Conversion (licensed technology)

MSDS

Material Safety Data Sheet

MTBE

methyl tertiary-butyl ether

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

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

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

X. Glossary

NO_x

Oxides of nitrogen.

NSPS

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

NSR

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

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

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

Phase II Acid Rain Facility

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

POC

Precursor Organic Compounds

PM

Particulate Matter

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

Process Unit

For the purpose of start-up and shutdown reporting, a process unit is defined as in 40 CFR Part 60 Subpart GGG: Process Unit means components assembled to produce intermediate or final products from petroleum, unfinished petroleum derivatives, or other intermediates; a process unit can operate independently if supplied with sufficient feed or raw materials and sufficient storage facilities for the product.

PSD

X. Glossary

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

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RFG

Refinery Fuel Gas

RMG

Refinery Make Gas

SCR

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

SIP

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

SO₂

Sulfur dioxide

SO₂ Bubble

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

SO₃

Sulfur trioxide

Start-up

For reporting purposes only, a start-up shall be defined as any of the following; the removal of boundary blinds, first fire to a furnace, or the introduction of process feed to a unit. A start-up only occurs following a shutdown unless it involves a newly constructed process unit.

Shutdown

X. Glossary

For reporting purposes only, a shutdown shall be defined as any of the following; there is no process feed to a unit, no furnace fires, or the boundary blinds are installed.

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

Title V

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

TOC

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

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Plan

TRS

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

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

X. Glossary

Units of Measure:

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

Symbols:

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

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